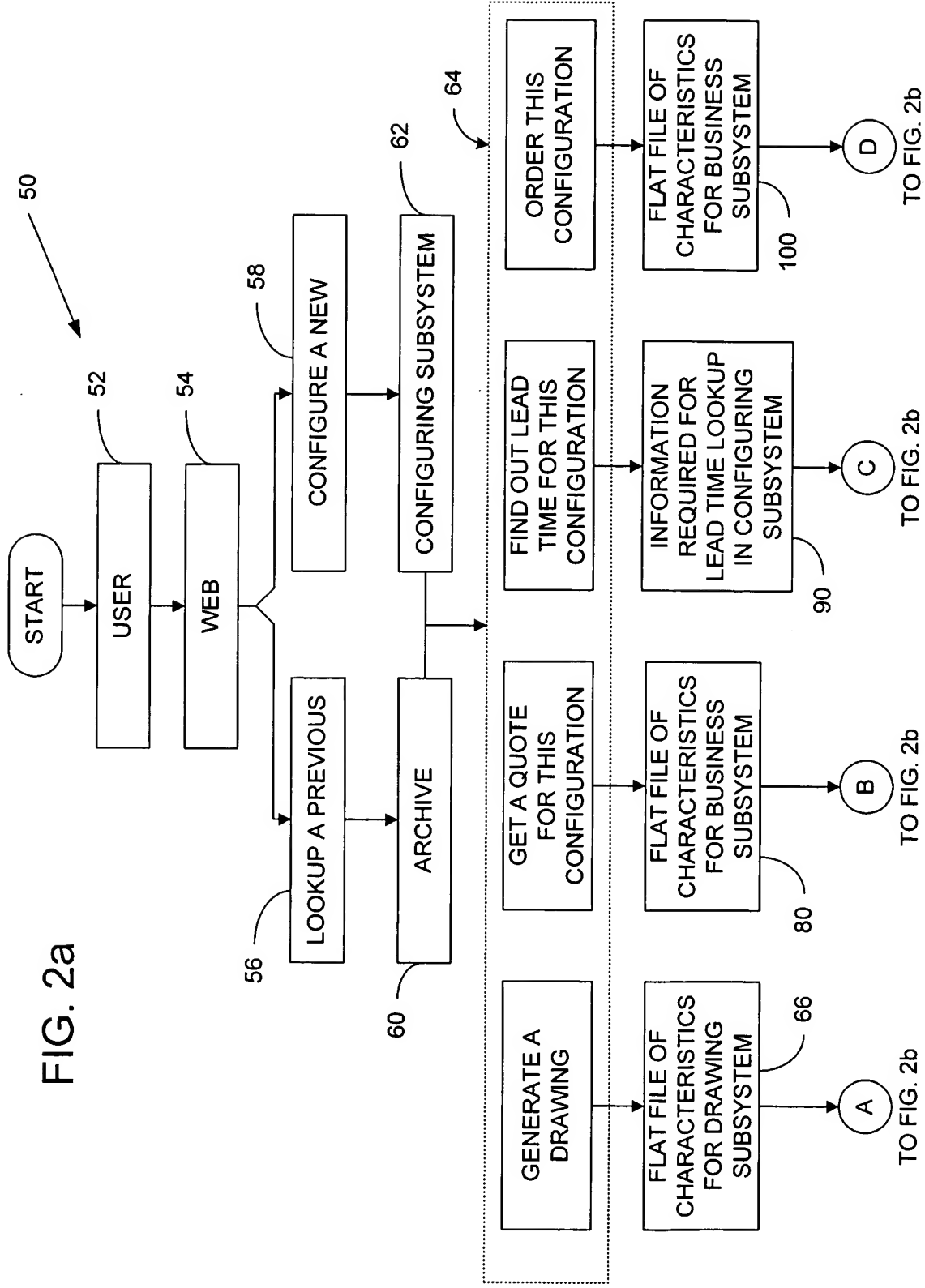


FIG. 1

FIG. 2a



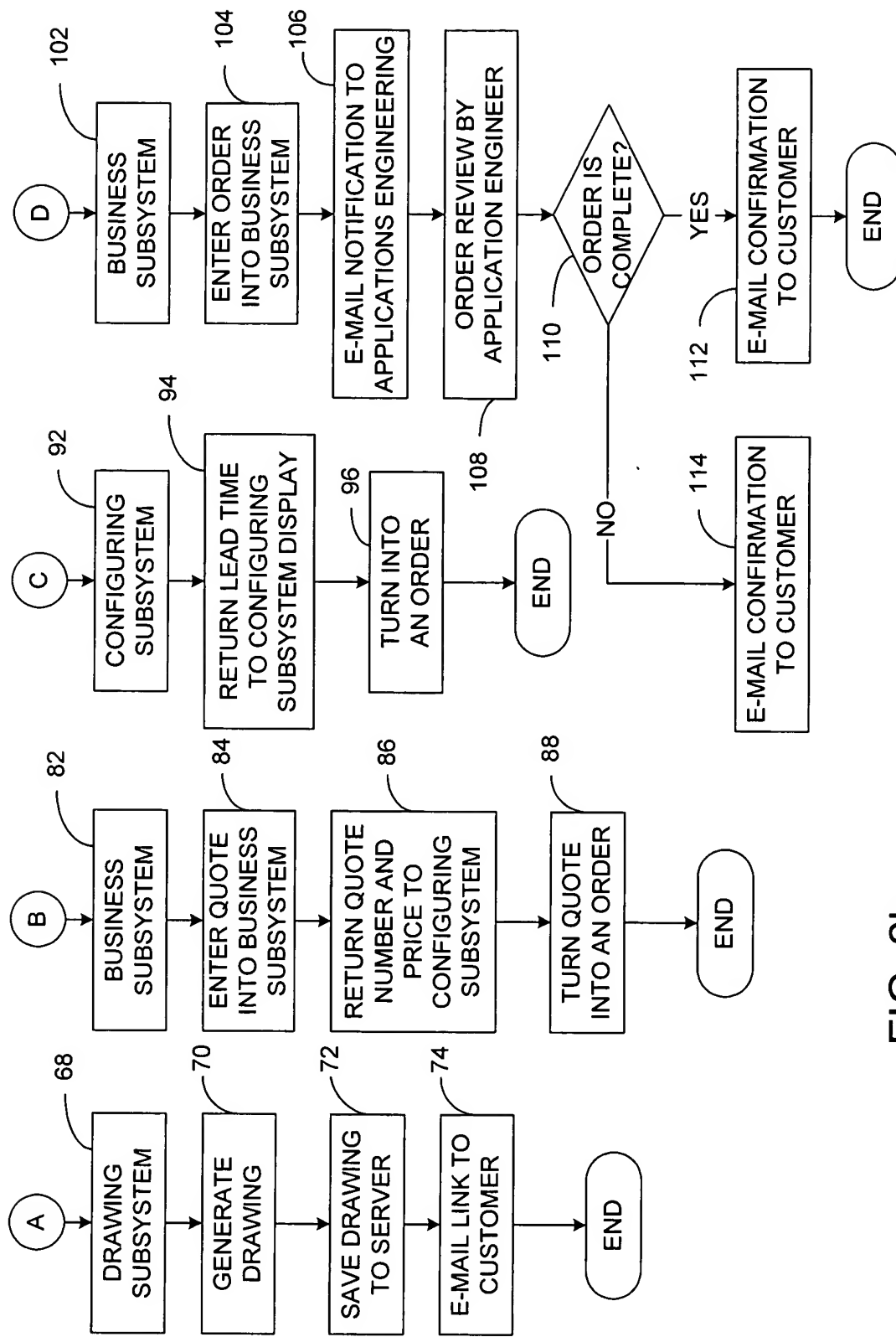


FIG. 2b

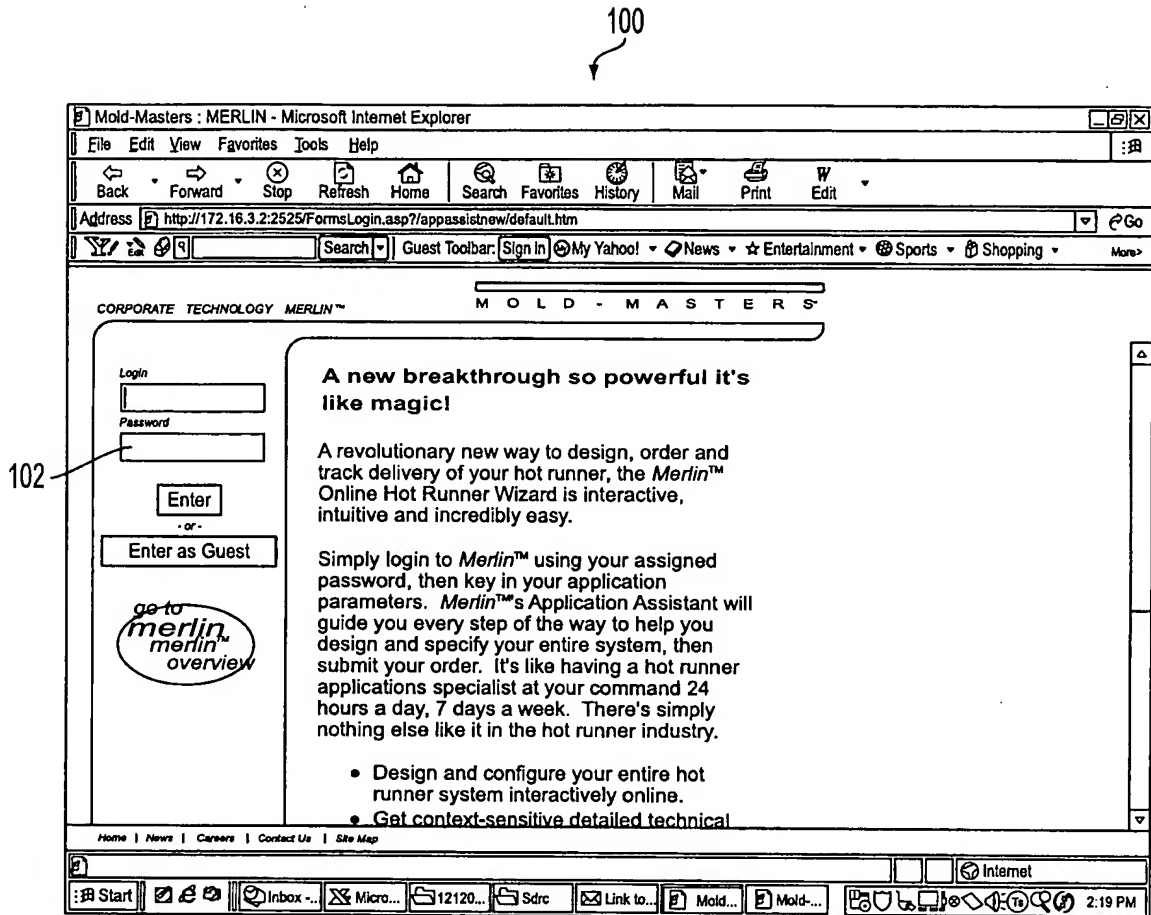


FIG. 3

110

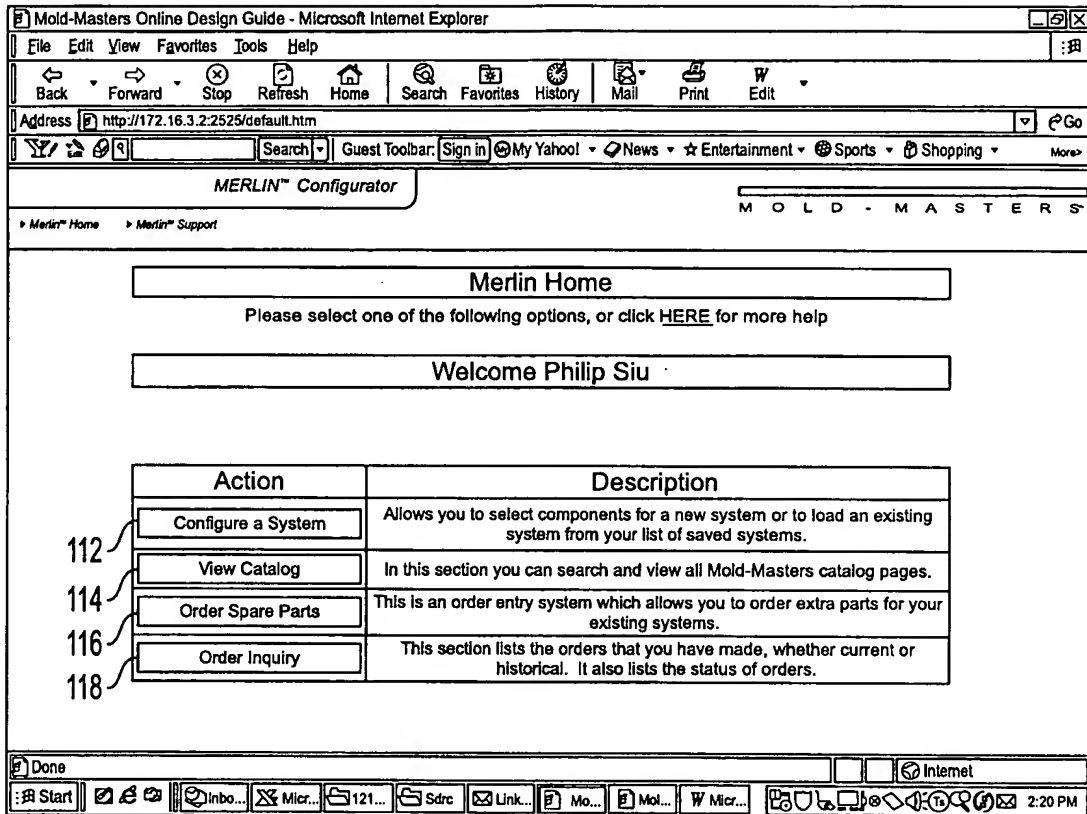


FIG. 4

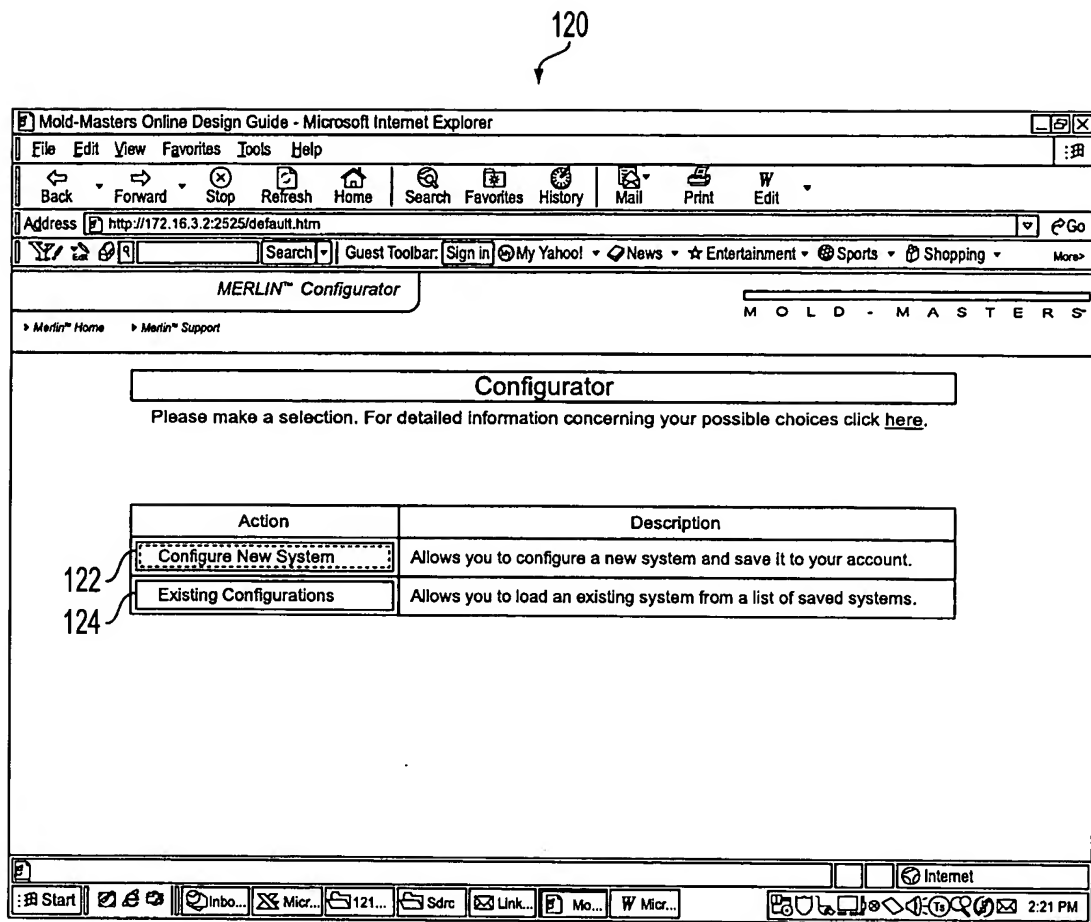


FIG. 5

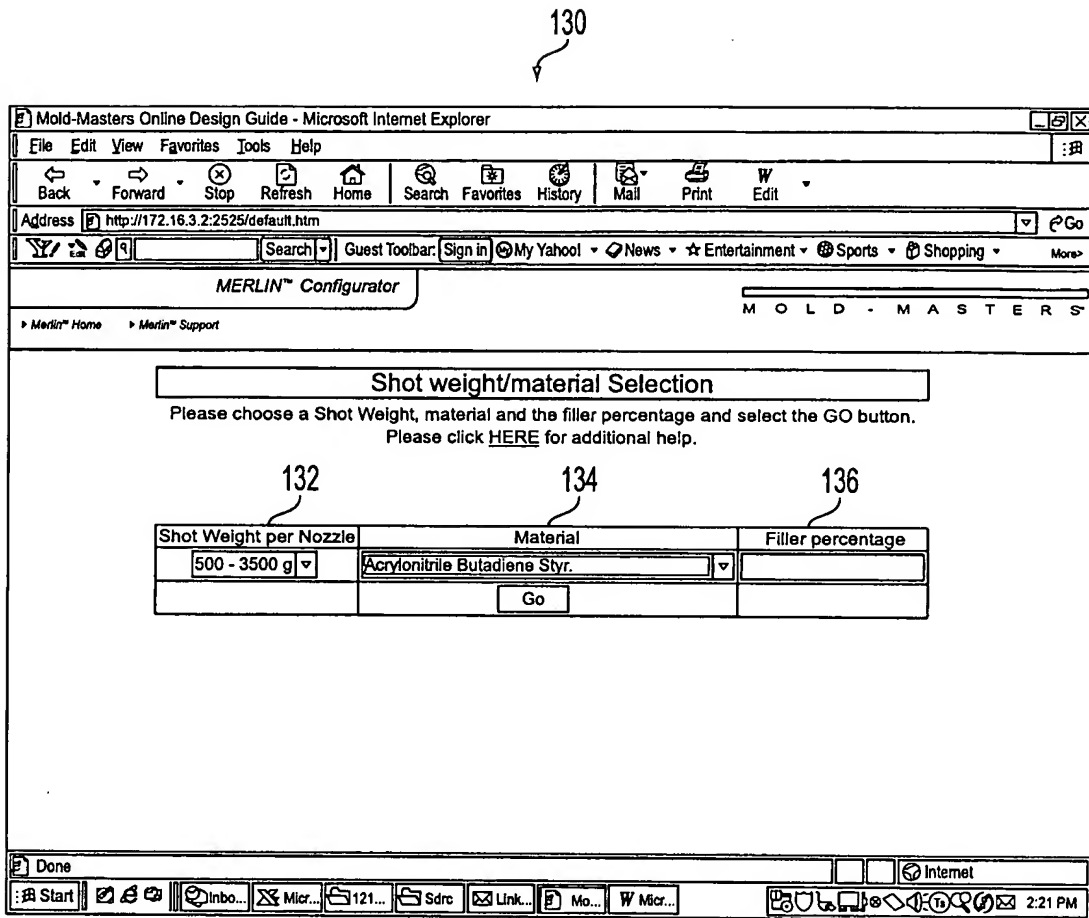


FIG. 6

140

MERLIN™ Configurator

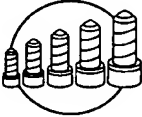
M O L D - M A S T E R S™

[Merlin™ Home](#)
[Merlin™ Support](#)

Product Line Selection

Please select a product line by clicking the button below it. Click [here](#) to find out more information.


Previous Step



Dura™

142

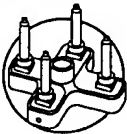
Mold Masters established Dura product line of hot runner systems.



MIM Dura-Shot®

144

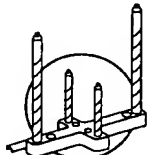
The MIM Dura-Shot® range of products is based on Mold-Masters established Dura know-how, but with the added advantages of MIM technology.



MIM Speed™

146

Specify, Design and Order your MIM Speed Hot Runner System - Online to provide the fastest delivery of the hot runner system to your specification.



Flex Dura™ System

147

The Flex Dura product line was developed specifically for the automotive and large part molding industries.

FIG. 7

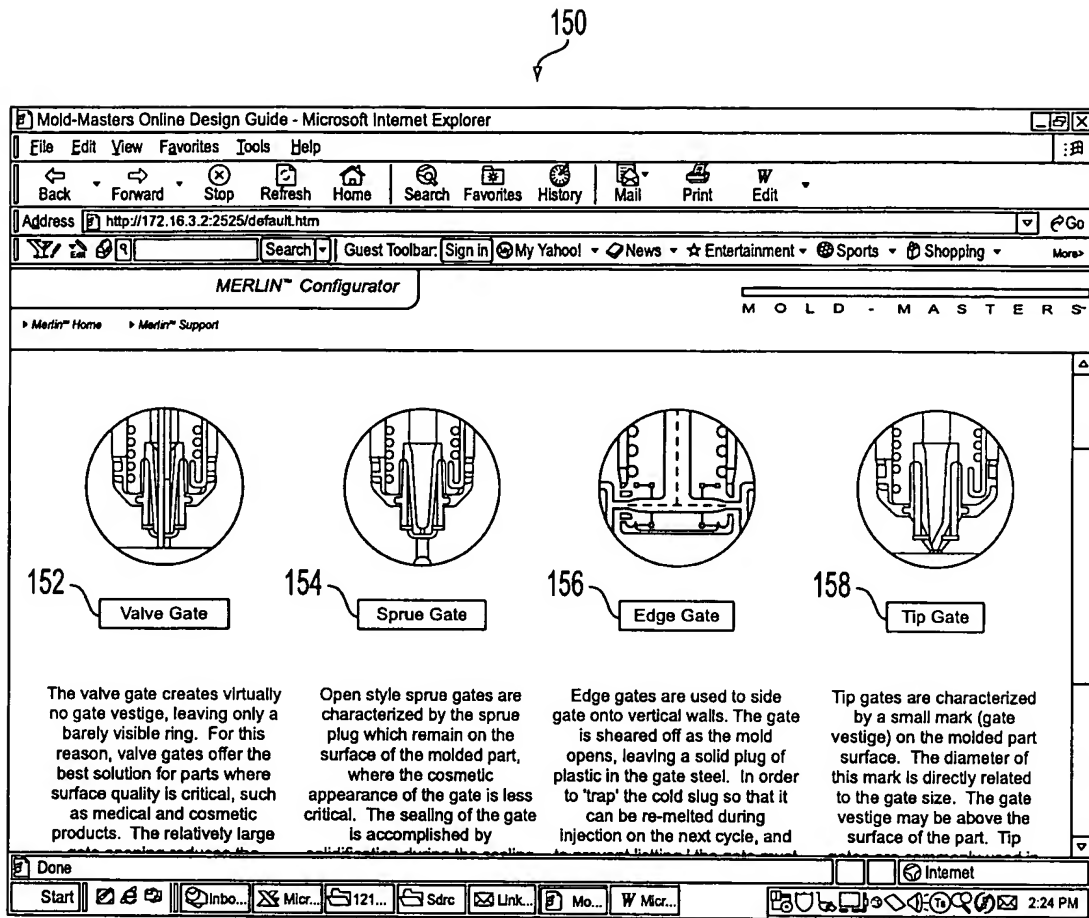


FIG. 8

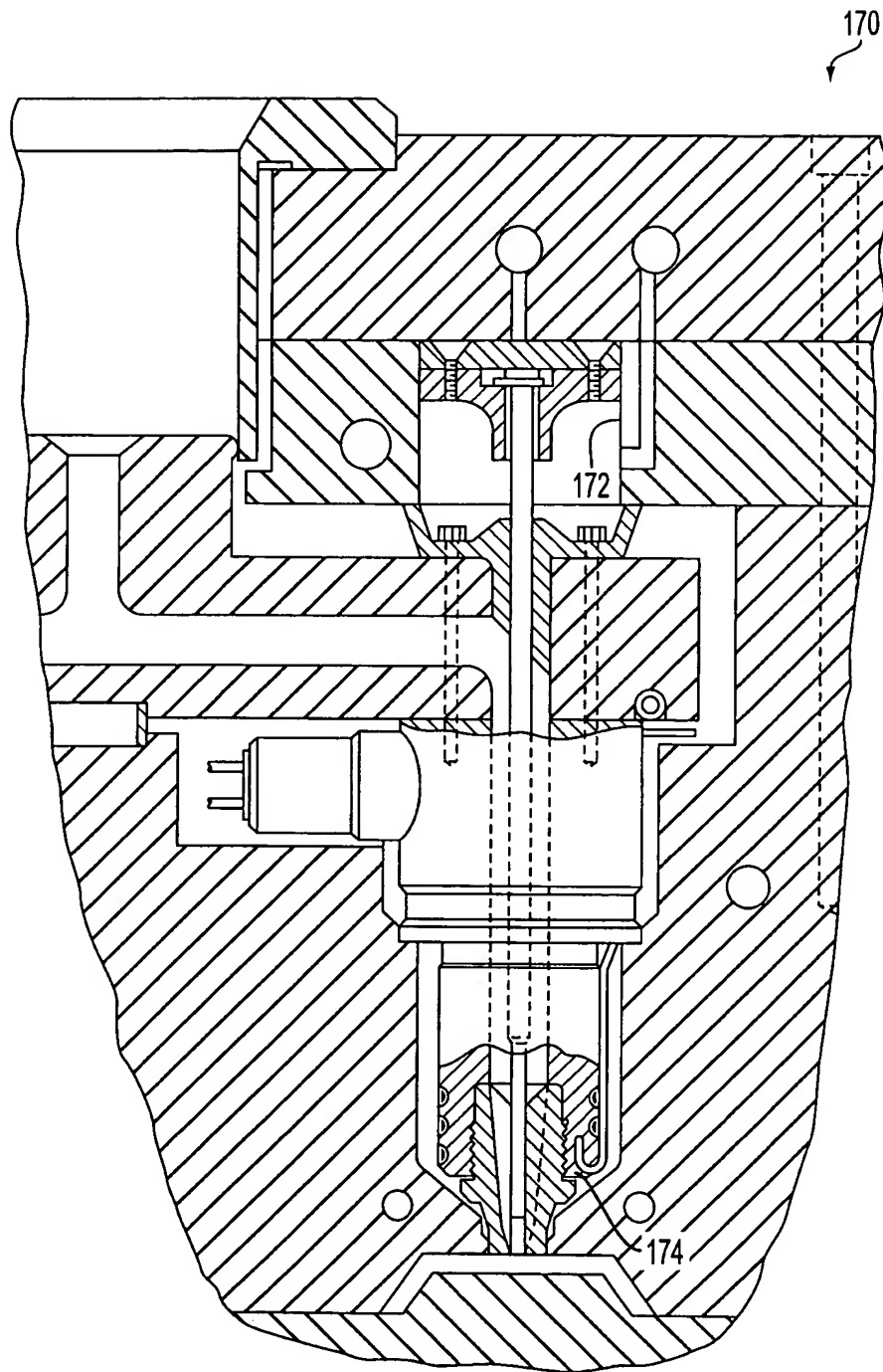


FIG. 9

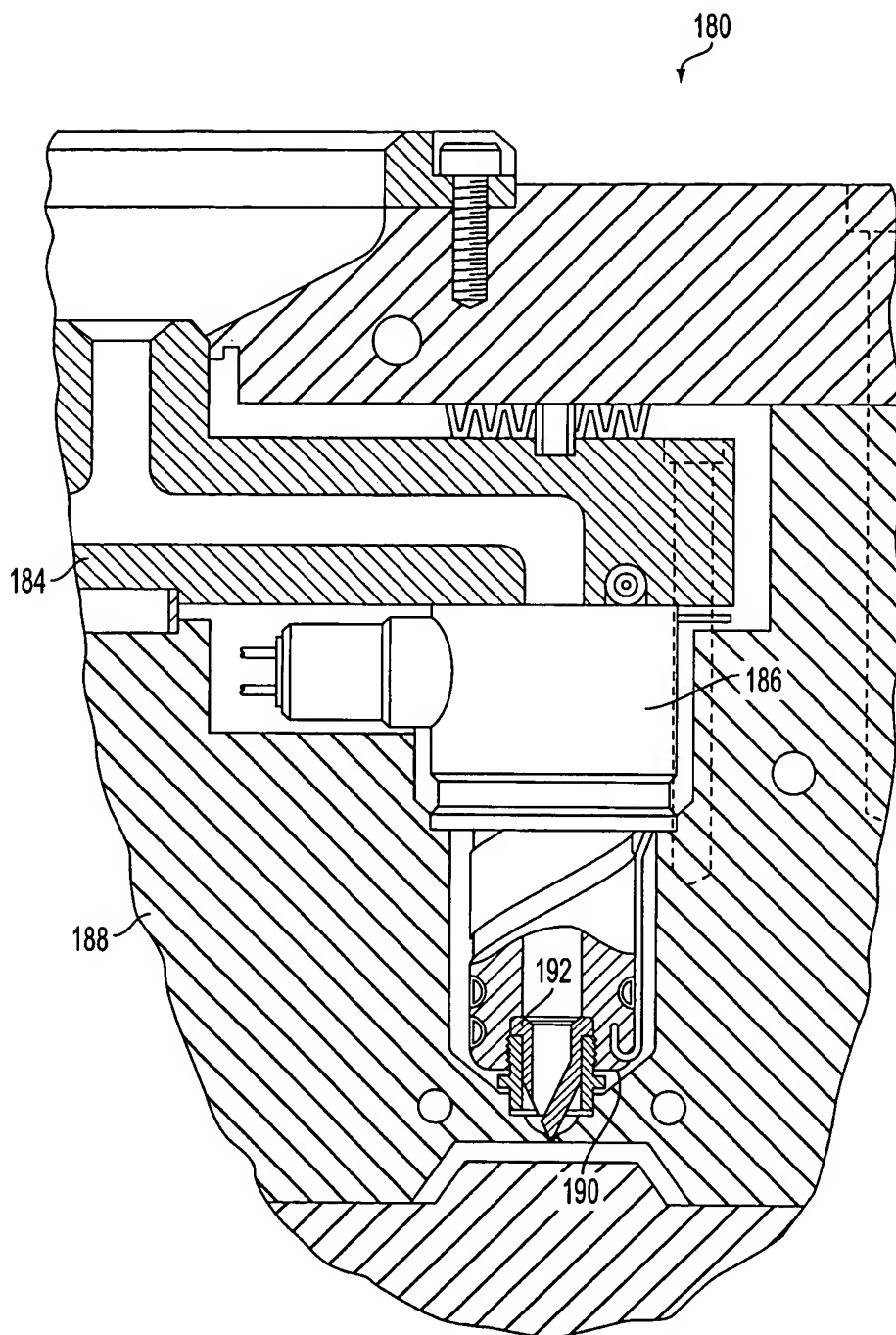


FIG. 10

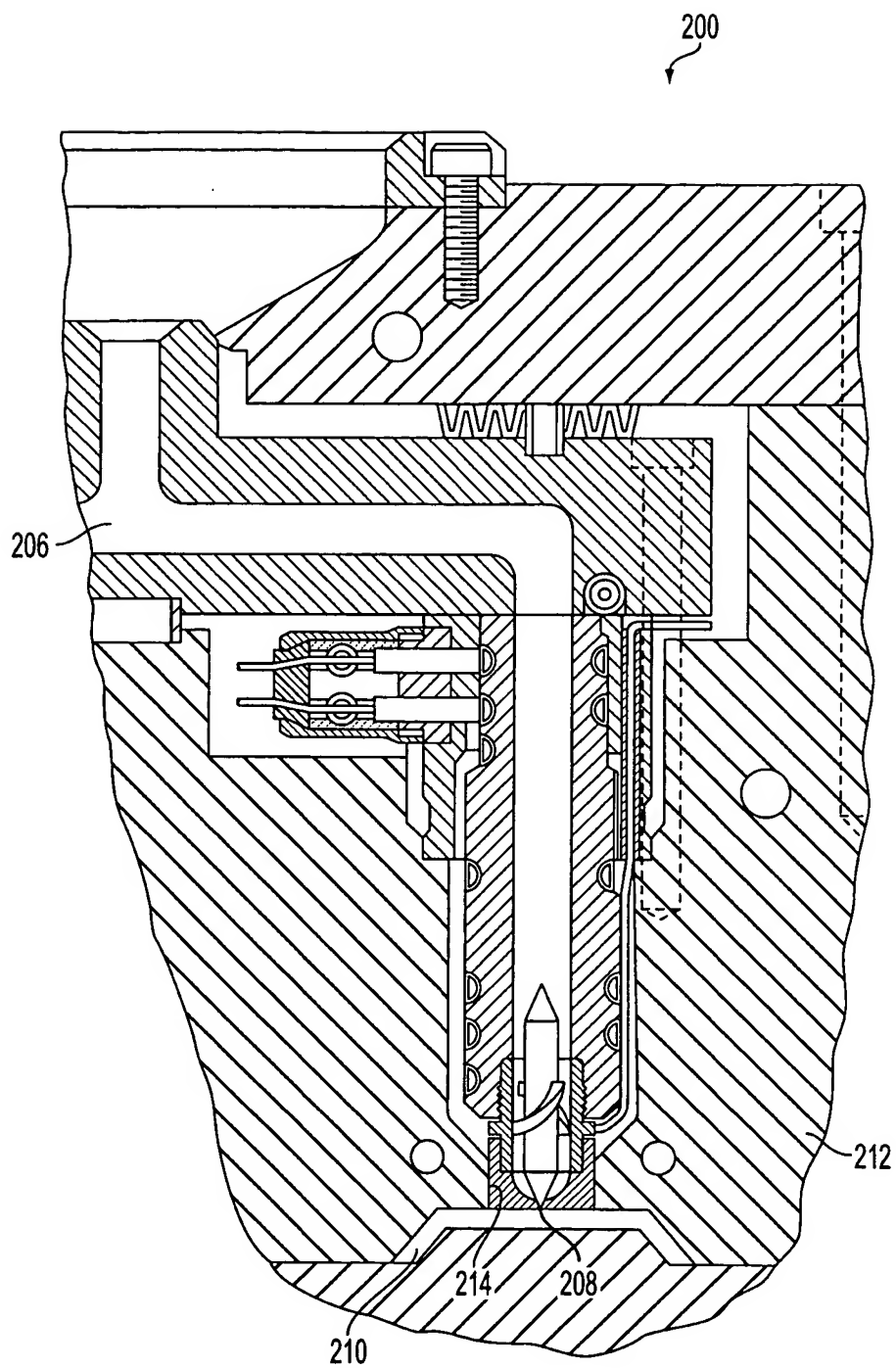


FIG. 11

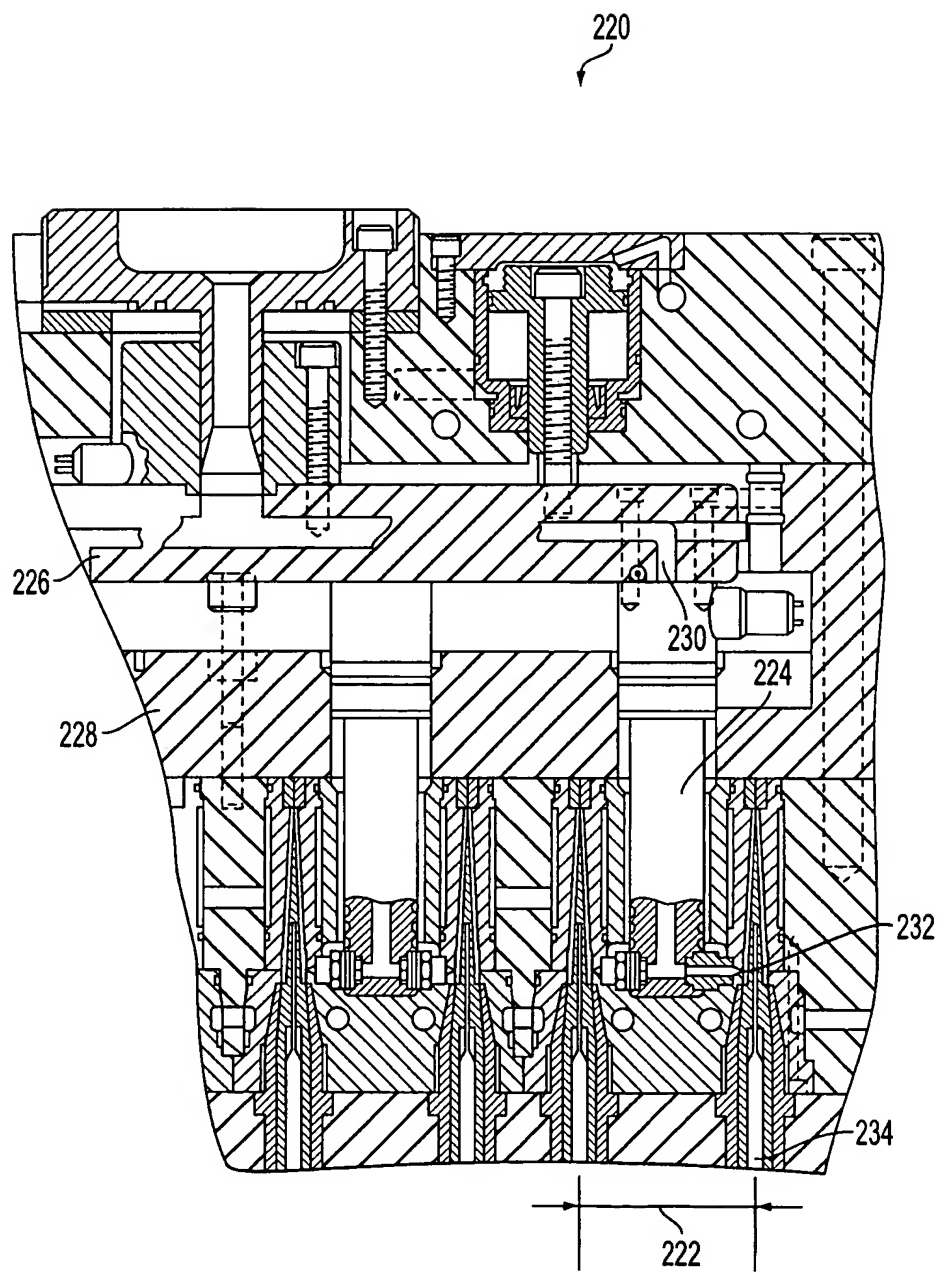


FIG. 12

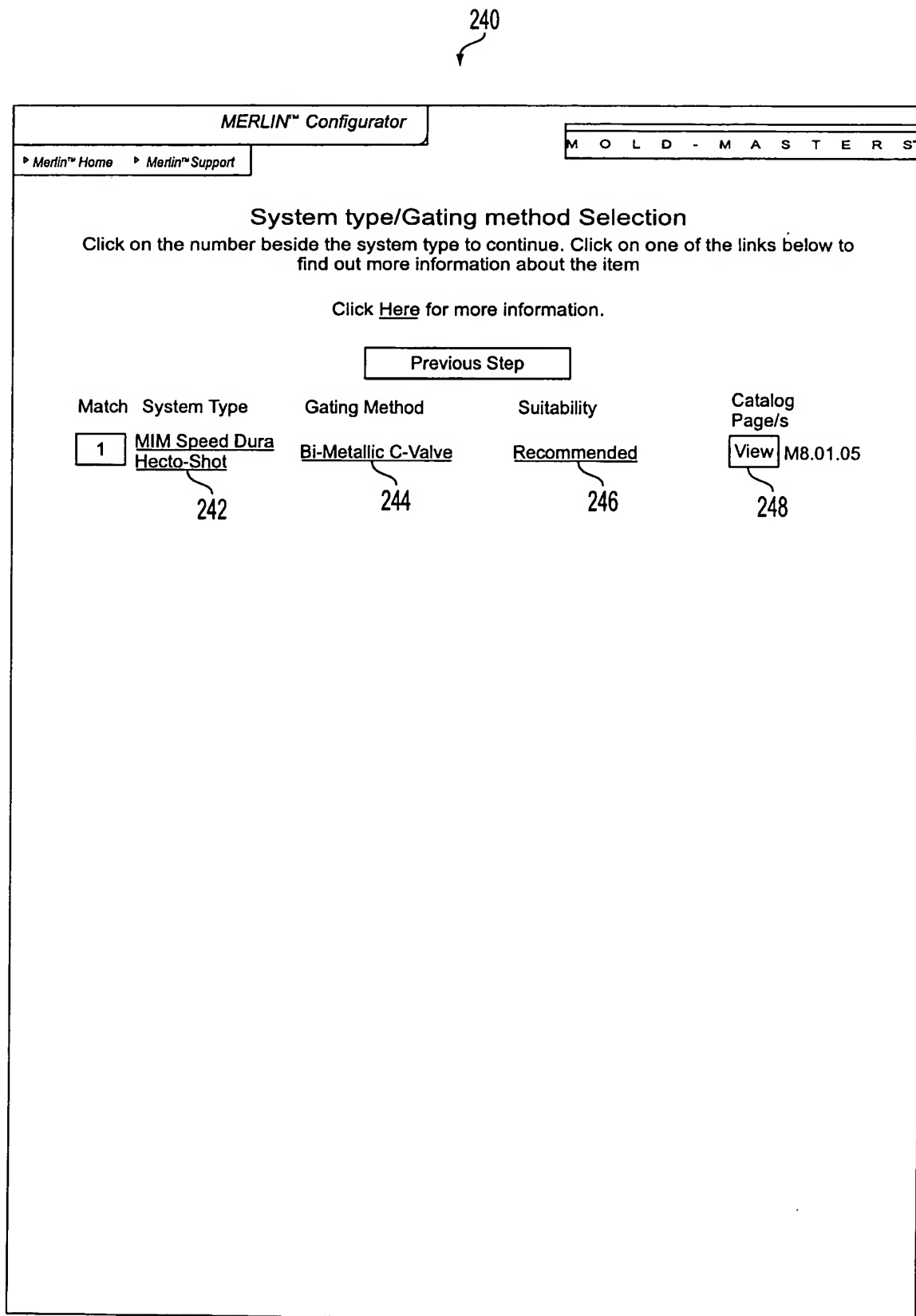


FIG. 13

260

MERLIN™ Configurator

[Merlin™ Home](#)
[Merlin™ Support](#)

M O L D - M A S T E R S™

Gate Seal

Please select the gate seal you require, or click [HERE](#) for more information.

Previous Step

Match Gate Seal #	Description	Diameter/Range
<div>1</div> <div>268</div>	TS0664P2 MDH C VALVE TS0664 + TSL229	4.0 - 5.0 mm

Relevant Catalog Pages

Catalog Page	Title
<div>View</div> <div>270</div>	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

262

264

266

☐ Gate Seal
 ☐ Water Cooled Gate Insert
 ☐ Locating Ring

☐ Nozzle
 ☐ Valve Actuator
 ☐ Manifold Plates

☐ Manifold
 ☐ Inlet Component

Revision Date

Jun 6 2000 12:41 AM

CAD Drawings

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FIG. 14

280

MERLIN™ Configurator

M O L D - M A S T E R S

▶ Merlin™ Home ▶ Merlin™ Support

Nozzle

Please select the nozzle you require, or click [HERE](#) for more information.

Previous Step

Match	Nozzle #	Description	L-Dim (mm)
282	1	NZMH1B1A060P Mim Dura Hecto Valve nozzle L=60	74
284	2	NZMH1B1A090P Mim Dura Hecto Valve nozzle L=90	104
286	3	NZMH1B1A120P Mim Dura Hecto Valve nozzle L=120	134
288	4	NZMH1B1A150P Mim Dura Hecto Valve nozzle L=150	164

Relevant Catalog Pages

Catalog Page	Title
290	<div style="border: 1px solid black; padding: 2px; display: inline-block;">View</div> M8.01.05 MDH C VALVE TS0664 + TSL229
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">View</div> M8.01.05 MIM Dura Hecto-Shot @ Bi-Metallic C-Valve

Revision Date	CAD Drawings
Jun 6 2000 12:41 AM	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>
Jun 6 2000 12:41 AM	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>

FIG. 15

300

MERLIN™ Configurator

Merlin™ HomeMerlin™ Support

M O L D - M A S T E R S™

Number Of Nozzles Selection

Please select the number of nozzles required for your system, or Click [HERE](#) for more information

Previous Step

Enter Number of Nozzles/Drops desired in System

302

1

2 Nozzles

304

2

4 Nozzles

306

View

M8.01.05 Mim Dura Hecto Valve nozzle L=120

Jun 6 2000 12:41AM

Download

View

M8.01.05 MDH C VALVE TS0664 + TSL229

Jun 6 2000 12:41AM

Download

View

M8.01.05 MIM Dura Hecto-Shot © Bi-Metallic C-Valve

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CAD Drawings

FIG. 16

320

MERLIN™ Configurator

Merlin™ HomeMerlin™ Support


M O L D - M A S T E R S™

Manifold Configuration Selection

Please choose a suitable manifold configuration from the icons shown below or click [HERE](#) for more detailed information.

Previous Step

Standard Sub Manifolds

324

Relevant Catalog Pages

Catalog Page	Title	Revision Date	CAD Drawings
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120	Jun 6 2000 12:41AM	Download
View	M8.01.05 MDH C VALVE TS0664 + TSL229	Jun 6 2000 12:41AM	Download
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve	Jun 6 2000 12:41AM	Download

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FIG. 17

340

MERLIN™ Configurator

M O L D - M A S T E R S™

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Merlin™ Support

Sub Manifold Pitch Selection

Click [HERE](#) for more detailed information

Previous Step

Click the Next button to accept this dimension or enter a smaller pitch dimension for your application if required.

Off Pitch X:

190

mm

▼

Next

Relevant Catalog Pages

Catalog Page	Title
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120
View	M8.01.05 MDH C VALVE TS0664 + TSL229
View	M8.01.05 MIM Dura Hecto-Shot @ Bi-Metallic C-Valve

Revision Date
Jun 6 2000 12:41AM
Jun 6 2000 12:41AM
Jun 6 2000 12:41AM

CAD Drawings

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FIG. 18

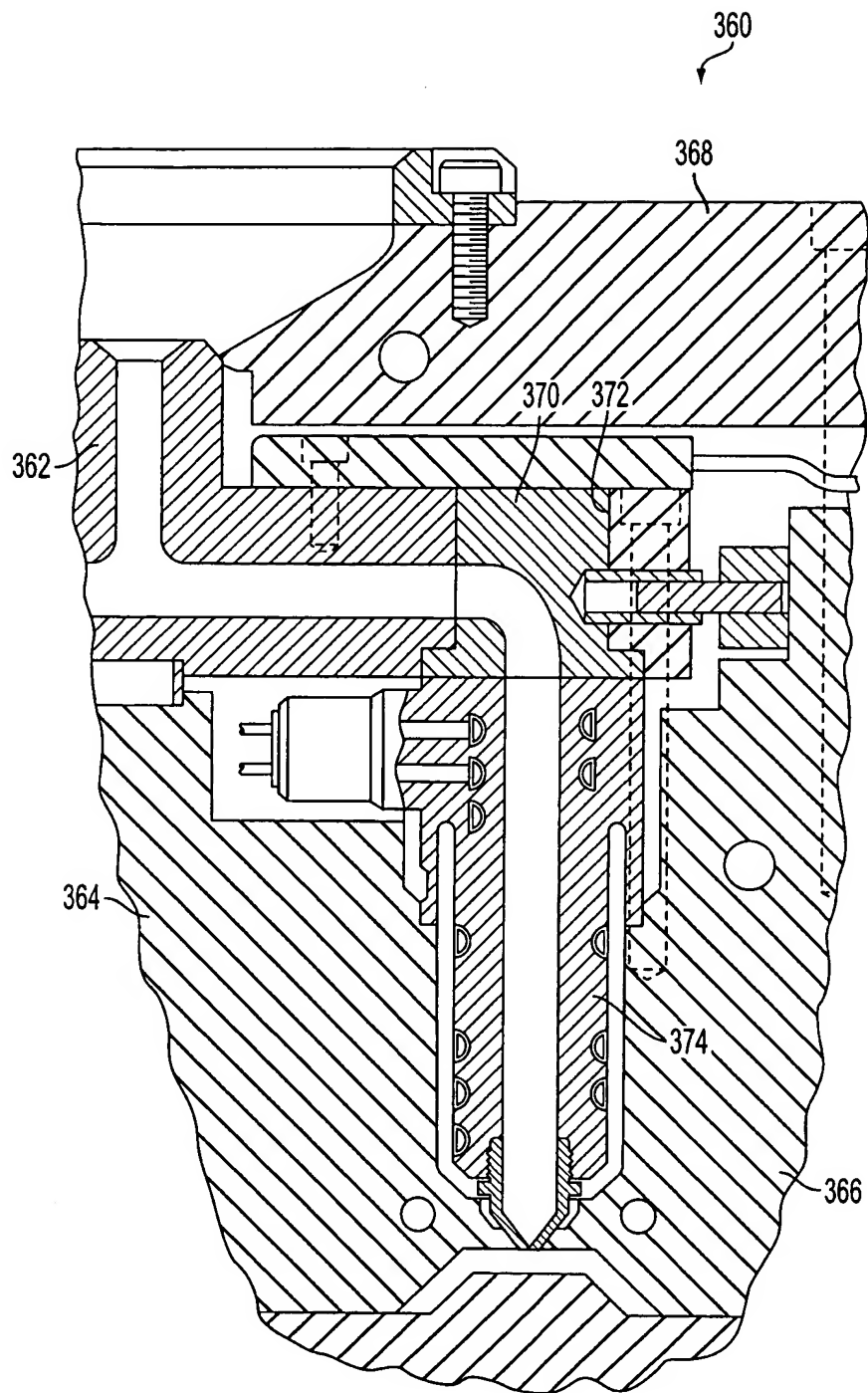


FIG. 19

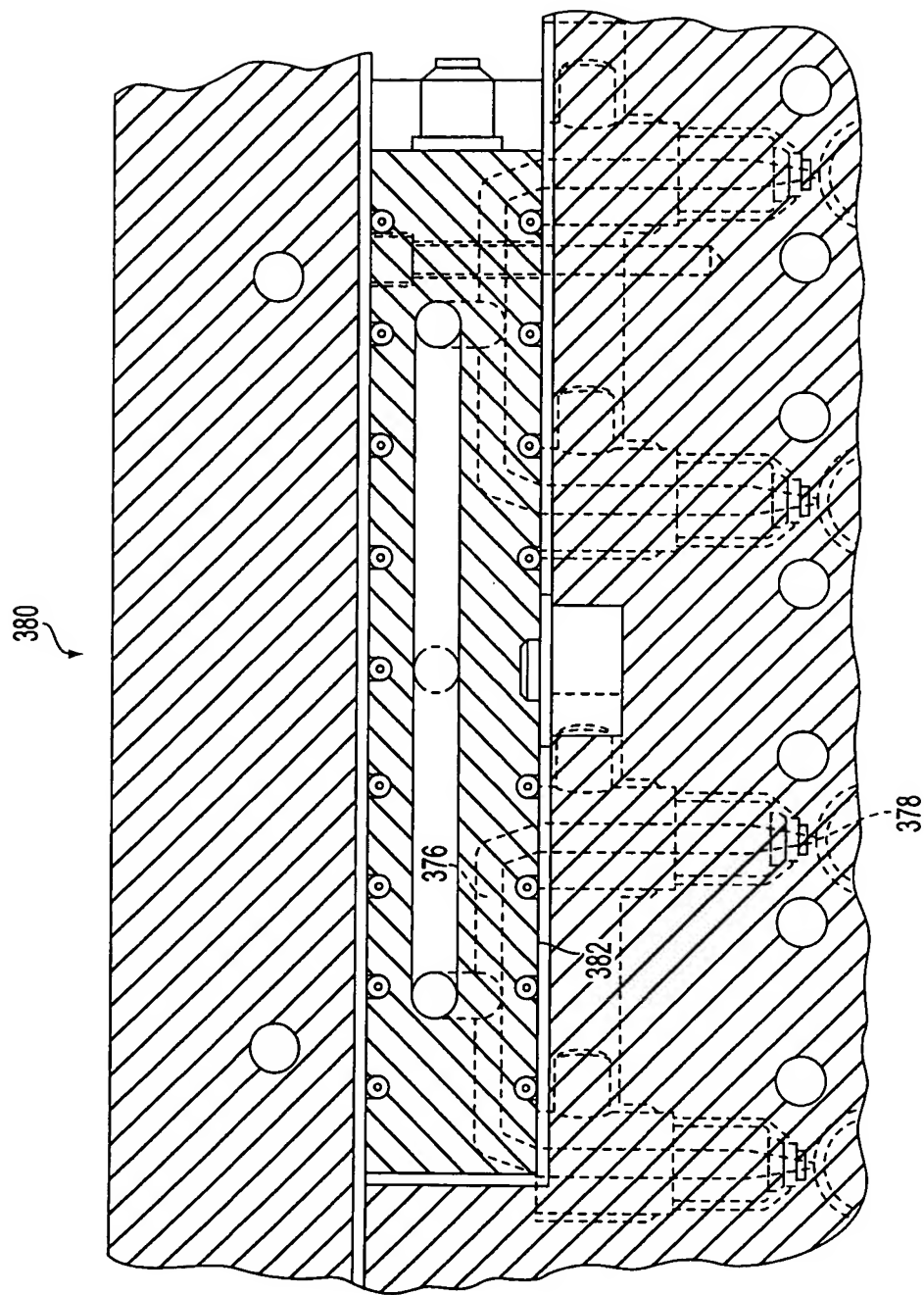


FIG. 20

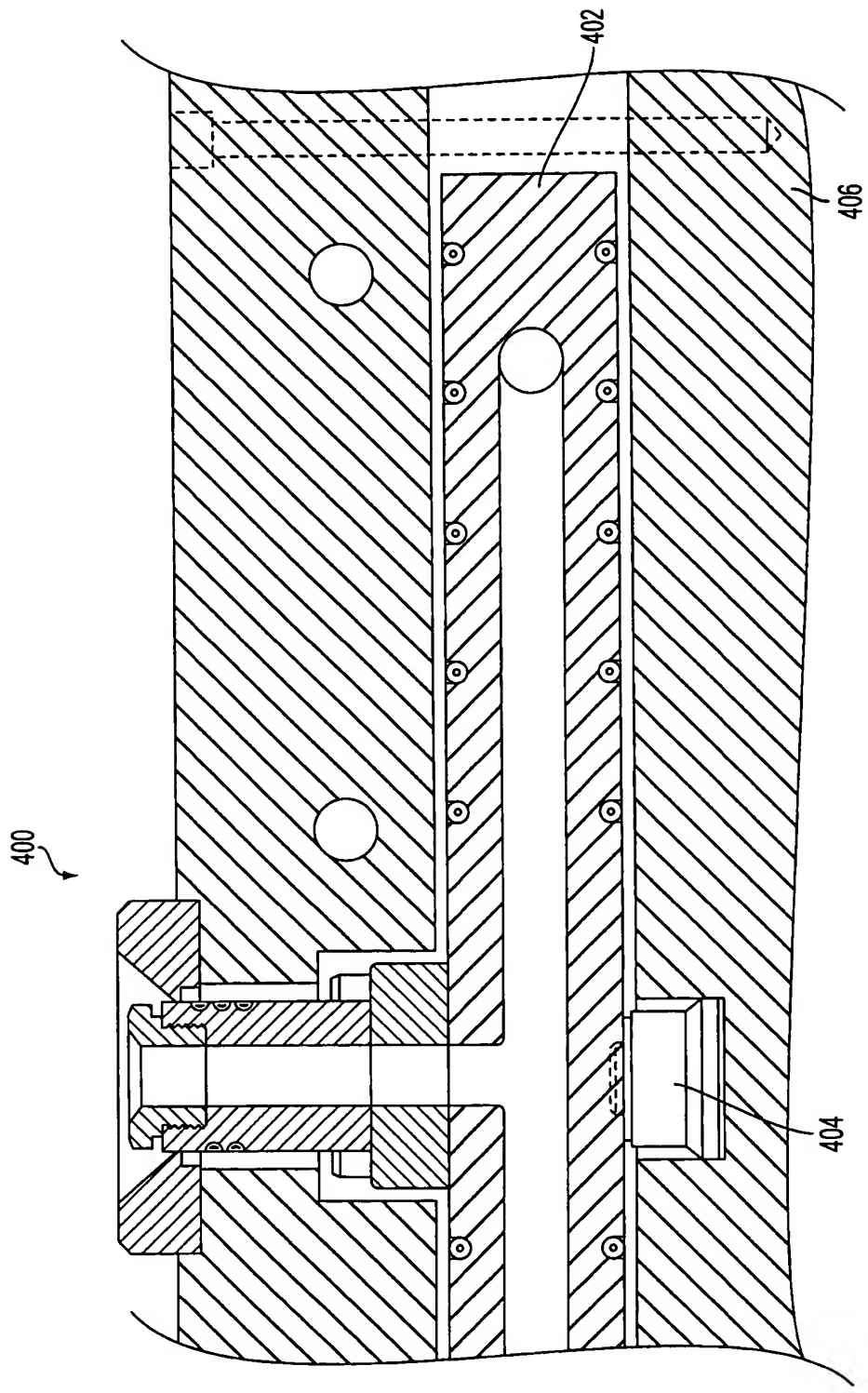


FIG. 21

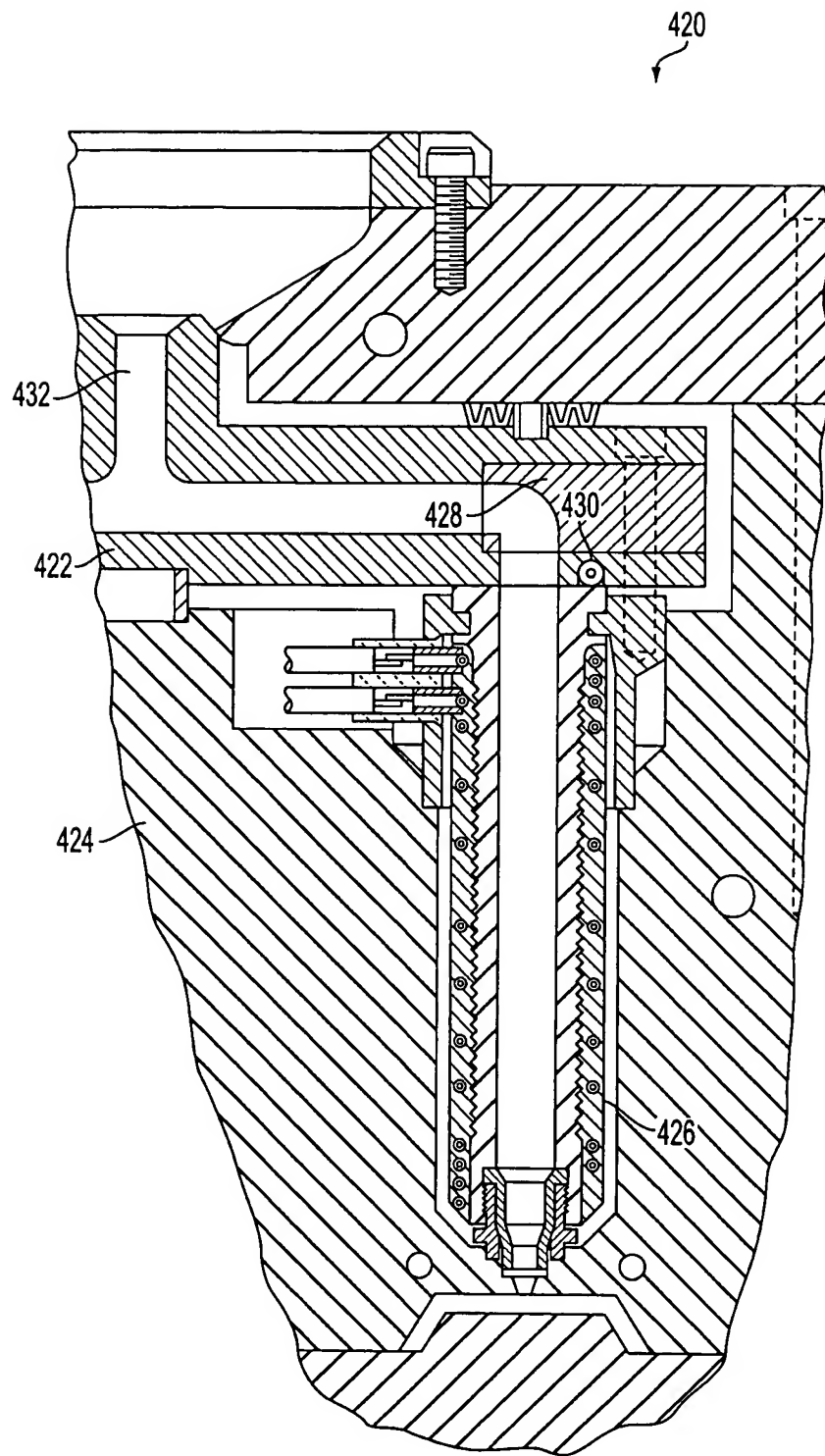


FIG. 22

440

MERLIN™ Configurator

M O L D - M A S T E R S™

▶ Merlin™ Home ▶ Merlin™ Support

Water Cooled Gate Insert (Optional)
 Please select the gate insert you require, or click [HERE](#) for more information.

Previous Step

Match Gate Insert #	Description	D- Dimension
Water Cooled Gate Inserts are not available for this application.		

NEXT

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

☐ Gate Seal ☐ Water Cooled Gate Insert ☐ Locating Ring
☐ Nozzle ☐ Valve Actuator ☐ Manifold Plates
☐ Manifold ☐ Inlet Component

Relevant Catalog Pages

Catalog Page	Title
View	M8.02.02 2-Inline Sub Manifold
View	M8.01.05 Mim Dura Hecto-Valve nozzle L=120
View	M8.01.05 MDH C VALVE TS0664 + TSL229
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

Revision Date	CAD Drawings
Jun	Download
Jun 6 2000 12:41AM	Download
Jun 6 2000 12:41AM	Download
Jun 6 2000 12:41AM	Download

FIG. 23

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MERLIN™ Configurator

M O L D - M A S T E R S™

Merlin™ Home

Merlin™ Support

Valve Actuator

Please select the valve actuator you require, or click [HERE](#) for more information.

Previous Step

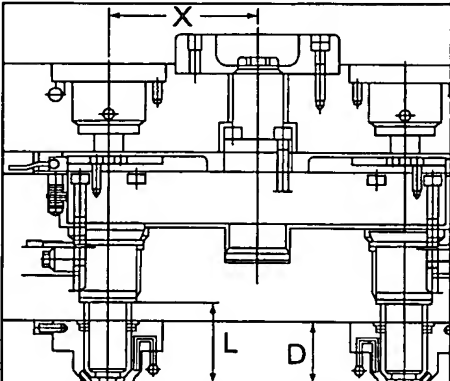
Match Valve Actuator #	Description	Valve Pin Max. Length	Valve Pin Diameter	Valve Pin Stroke
1	HY6600D Hydraulic/Pneumatic Cylinder Assembly	355.0 mm	7.940 mm	20.0 mm

464

Relevant Catalog Pages

Catalog Page	Title
View	M8.02.02 2-Inline Sub Manifold
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120
View	M8.01.05 MDH C VALVE TS0664 + TSL229
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

466



MIM Dura Hecto-Shot ® Bi-Metallic C-V

☐ Gate Seal
☐ Nozzle
☐ Manifold

☐ Water Cooled Gate Insert
☐ Valve Actuator
☐ Inlet Component

☐ Locating
☐ Manifold

462

Revision Date

Jun

Jun 6 2000 12:41AM

Jun 6 2000 12:41AM

Jun 6 2000 12:41AM

CAD Drawings

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FIG. 24

480

MERLIN™ Configurator

M O L D - M A S T E R S™

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Merlin™ Support

Inlet Component

Please select the Inlet Component you require, or click [HERE](#) for more information.

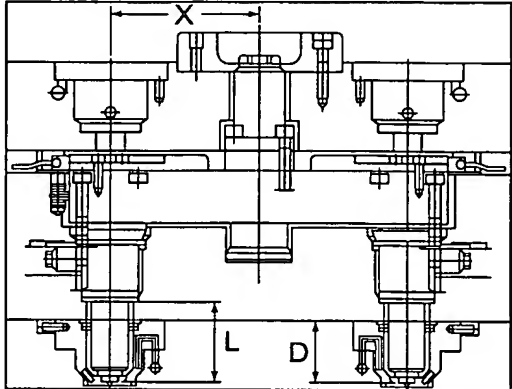
Previous Step

Matches	Description
1	Manifold center heater

1

484

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve



482

Relevant Catalog Pages

Catalog Page	Title
View	12.01.12 Hydraulic/Pneumatic Cylinder Assembly
View	M8.02.02 2-Inline Sub Manifold
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120
View	M8.01.05 MDH C VALVE TS0664 + TSL229
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

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Revision Date	CAD Drawings
98-Oct-22	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>
Jun	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>
Jun 6 2000 12:41 AM	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>
Jun 6 2000 12:41 AM	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>
Jun 6 2000 12:41 AM	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Download</div>

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FIG. 25

500

MERLIN™ Configurator

M O L D - M A S T E R S™

Merlin™ Home

Merlin™ Support

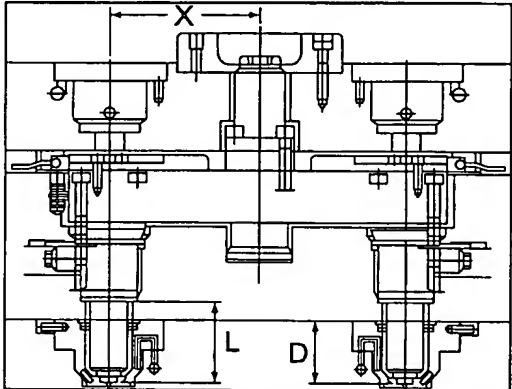
Inlet Component Manifold center heater

Please select the Inlet Component you require, or click [HERE](#) for more information.

Previous Step

	Matches Inlet Component #	Machine Nozzle Radius
502	1	BP58.500P 0.5 inch
	2	BP58.750P 0.75 inch

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve



☐ Gate Seal ☐ Water Cooled Gate Insert ☐ Locating Ring
☐ Nozzle ☐ Valve Actuator ☐ Manifold Plates
☐ Manifold ☐ Inlet Component

Relevant Catalog Pages

	Catalog Page Title	Revision Date	CAD Drawings
504	View 12.01.12 Hydraulic/Pneumatic Cylinder Assembly	98-Oct-22	Download
	View M8.02.02 2-Inline Sub Manifold	Jun	Download
	View M8.01.05 Mim Dura Hecto Valve nozzle L=120	Jun 6 2000 12:41 AM	Download
	View M8.01.05 MDH C VALVE TS0664 + TSL229	Jun 6 2000 12:41 AM	Download
	View M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve	Jun 6 2000 12:41 AM	Download

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Download

Download

Download

Download

Download

FIG. 26

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MERLIN™ Configurator

[Merlin™ Home](#)
[Merlin™ Support](#)

M O L D - M A S T E R S™

Location Ring

Please select the locating ring you require, or click [HERE](#) for more information.

Previous Step

Matches	Locating Ring #	Description	Diameter (mm)
1	LR0070	Loc. ring for machine nozzle pad	101.34
2	LR0071	Loc. ring for machine nozzle pad	109.75
3	LR0081	Locating Ring for Valve system with BP58, inch	101.36
4	LR0082	Locating Ring for Valve system with BP58, metric	109.77
5	LR0086	Locating Ring for Sprue system with BP58, inch	101.36
6	LR0087	Locating Ring for Sprue system with BP58, metric	109.77

Relevant Catalog Pages

View	Catalog Page Title	Revision Date	CAD Drawings
View	10.01.11 Manifold center heater	98-Oct-22	Download
View	12.01.12 Hydraulic/Pneumatic Cylinder Assembly	98-Oct-22	Download
View	M8.02.02 2-Inline Sub Manifold	Jun	Download
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120	Jun 6 2000 12:41 AM	Download
View	M8.01.05 MDH C VALVE TS0664 + TSL229	Jun 6 2000 12:41 AM	Download
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve	Jun 6 2000 12:41 AM	Download

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve

☐ Gate Seal
☐ Nozzle
☐ Manifold

☐ Water Cooled Gate Insert
☐ Valve Actuator
☐ Inlet Component

☐ Locating Ring
☐ Manifold Plates

FIG. 27

540

MERLIN™ Configurator

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[Merlin™ Support](#)

M O L D - M A S T E R S™

Molding Elevation

If you wish to include a Molding Elevation, please enter it below and choose the Unit of Measure.

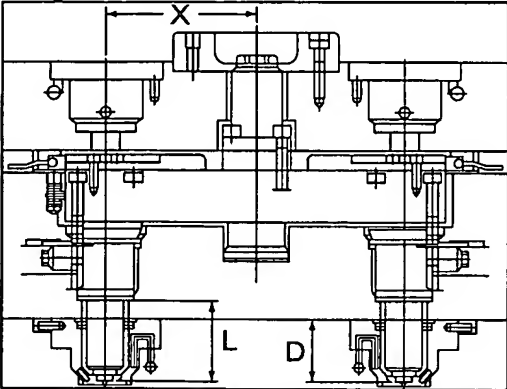
Click [HERE](#) for more information.

Previous Step

There is no Molding Elevation range available for this application. Click Next to continue or try another application.

Next

MIM Dura Hecto-Shot ® Bi-Metallic C-Valve



☐ Gate Seal

☐ Water Cooled Gate Insert

☐ Locating Ring

☐ Nozzle

☐ Valve Actuator

☐ Manifold Plates

☐ Manifold

☐ Inlet Component

Relevant Catalog Pages

Catalog Page	Title	Revision Date	CAD Drawings
View	M9.01.08 Locating Ring for Valve system with BP58, inch	Jun 6 2000 12:41 AM	Download
View	10.01.11 Manifold center heater	98-Oct-22	Download
View	12.01.12 Hydraulic/Pneumatic Cylinder Assembly	98-Oct-22	Download
View	M8.02.02 2-Inline Sub Manifold	Jun	Download
View	M8.01.05 Mim Dura Hecto Valve nozzle L=120	Jun 6 2000 12:41 AM	Download
View	M8.01.05 MDH C VALVE TS0664 + TSL229	Jun 6 2000 12:41 AM	Download
View	M8.01.05 MIM Dura Hecto-Shot ® Bi-Metallic C-Valve	Jun 6 2000 12:41 AM	Download

FIG. 28

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MERLIN™ Configurator		M O L D - M A S T E R S™	
Merlin™ Home Merlin™ Support			
Application Information Form Please fill in the relevant information and check for correctness.			
<input type="button" value="Previous Step"/>			
Action To Be Taken. For more information click HERE			
Company Name:		Contact Name <input type="text"/>	
Mold Maker	Molder	End User	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
Customer Ref. #	Requested Delivery Date		(in MM/DD/YYYY format)
<input type="text"/>	<input type="text"/>		
Plastic Part #	Plastic Part Name	Industry Segment	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
Additional information			
Material	Part	Mold	Other
<u>Material type :</u>	<u>Shot Weight :</u>	<u># of Cavities</u>	<u>Gate Cosmetics</u>
Acrylonitrile Butadiene Styr.	500 - 3500 g	<input type="text"/>	<input type="text"/>
<u>Grade</u>	<u>Est. Injection Time (sec.)</u>	<u>Sub-runners</u>	<u>Gate Cooling</u>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>Supplier</u>	<u>Wall Thickness</u>	<u>Gate</u>	<u>Dim. Stability</u>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>Process Temp</u>	<u>Flow Length</u>	<u>Land</u>	<u>Supp. Screws</u>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

FIG. 29

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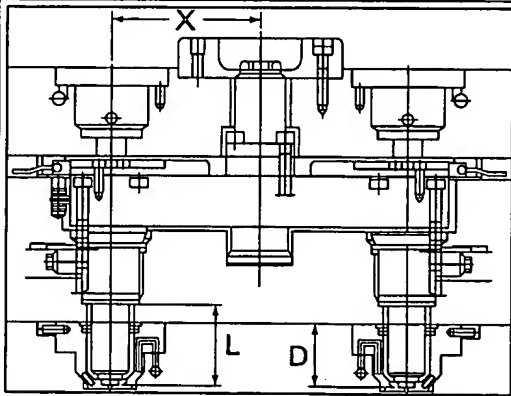
MERLIN™ Configurator		M O L D - M A S T E R S™	
Merlin™ Home Merlin™ Support			
Summary Information Form Please fill in the relevant information and check for correctness.			
<input type="button" value="Previous Step"/>		<input type="button" value="View Printable Version"/>	
Action To Be Taken. For more information click HERE			
Step 1 <input type="button" value="Save"/>	Step 2 <input type="button" value="Quote"/>	Step 3 <input type="button" value="Review"/>	Step 4 <input type="button" value="Order"/>
Lead Time: No Lead Time Available.	Quote #: 0040003107	Not Reviewed.	Order #:
<input type="button" value="Generate Drawings"/>	Price: \$6,681.00 USD		PO #
			N/A
Company Name:	Contact Name:		
Mold Maker:	Molder:	End User:	
Customer Ref. # :	Requested Delivery Date:		
Plastic Part # :	Plastic Part Name:	Industry Segment:	
		Required Parts List	
		Part Number	Description Options
		TS0664P2	MDH C VALVE TS0664 + TSL229 N/A
		NZMH1B1A120P	Mim Dura Hecto Valve nozzle L=120 N/A
		MNMDH21200BL4VP	2-Inline Sub Manifold N/A
		HY6600D	Hydraulic/Pneumatic Cylinder Assembly N/A
		BP58.750P	Manifold center heater N/A
		LR0081	Locating Ring for Valve system with BP58, inch N/A
Additional Information			
Material	Part	Mold	Other
Material type : Acrylonitrile Butadiene Styr.	Shot Weight : 500 - 3500g	# of Cavities :	Gate Cosmetics :
Grade:	Est. Injection Time (sec.):	Sub-runners:	Gate Cooling:
Supplier:	Wall Thickness:	Gate:	Dim. Stability:

FIG. 30

600

Generated Drawings		
Choose any of the file options below to download or view online		
Type	Drawings	Options
TIF	<u>GT_sys_valve_config_HY6600_0077.tif</u> (1449539 Bytes)	Download 602
		View 604
TIF	<u>GT_sys_valve_config_SYSTEM_ASSEMBLY.tif</u> (1170968 Bytes)	Download
		View
DXF	<u>GT_sys_valve_config_HY6600_0077.dxf</u> (1095118 Bytes)	Download
		View
DXF	<u>GT_sys_valve_config_SYSTEM_ASSEMBLY.dxf</u> (1786603 Bytes)	Download
		View
IGS	<u>GT_sys_valve_config_HY6600_0077.igs</u> (2487962 Bytes)	Download
		View
IGS	<u>GT_sys_valve_config_SYSTEM_ASSEMBLY.igs</u> (2302724 Bytes)	Download
		View
WRL	<u>GeneralAssembly.wrl (2461551 Bytes)</u>	Download
		View

FIG. 31

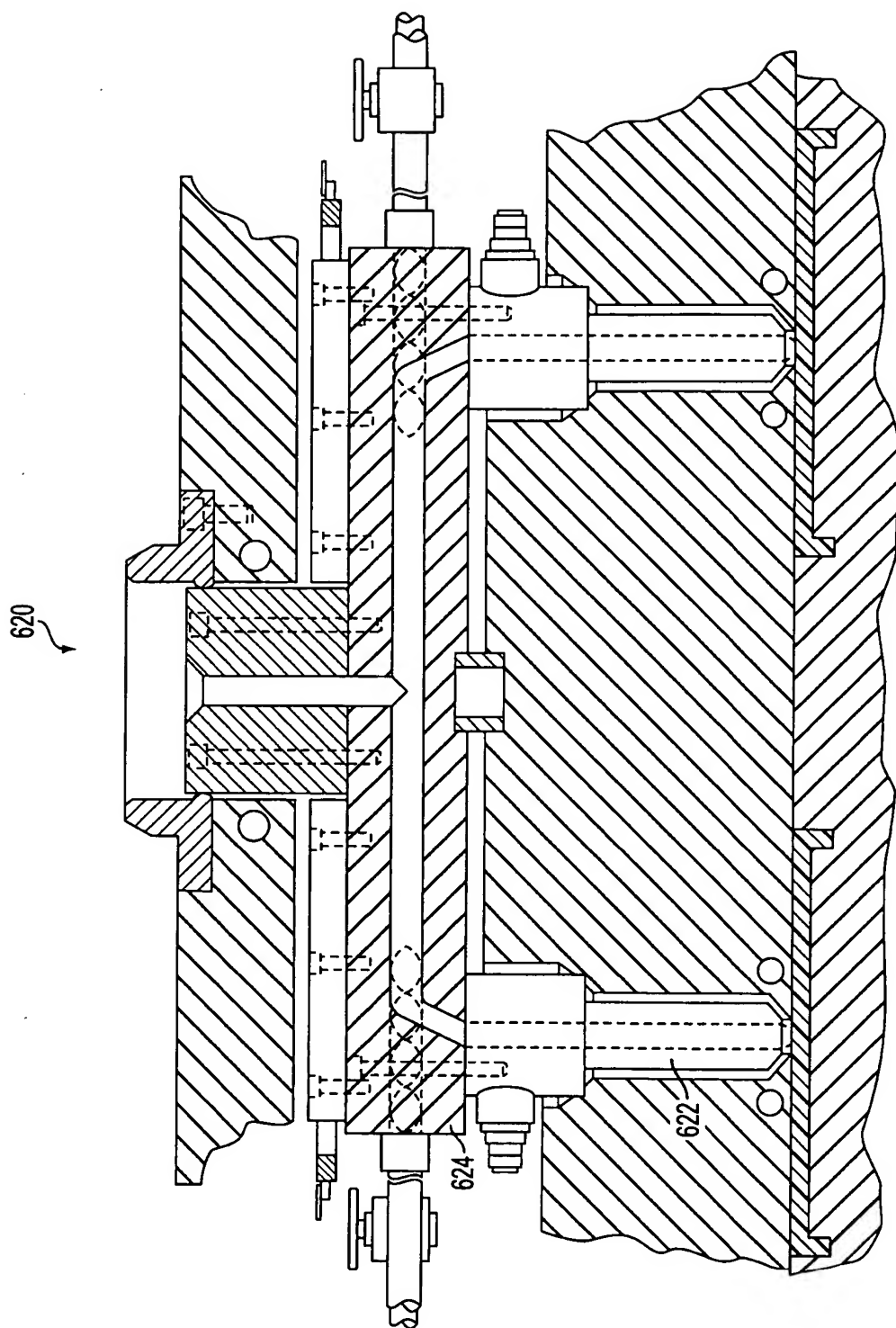


FIG. 32

640

MERLIN™ Configurator

Merlin™ HomeMerlin™ Support

M O L D - M A S T E R S™

Configurator

Please make a selection. For detailed information concerning your possible choices click [here](#).

Action	Description
<div>Configure New System</div>	Allows you to configure a new system and save it to your account.
<div>Existing Configurations</div>	Allows you to load an existing system from a list of saved systems.

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FIG. 33

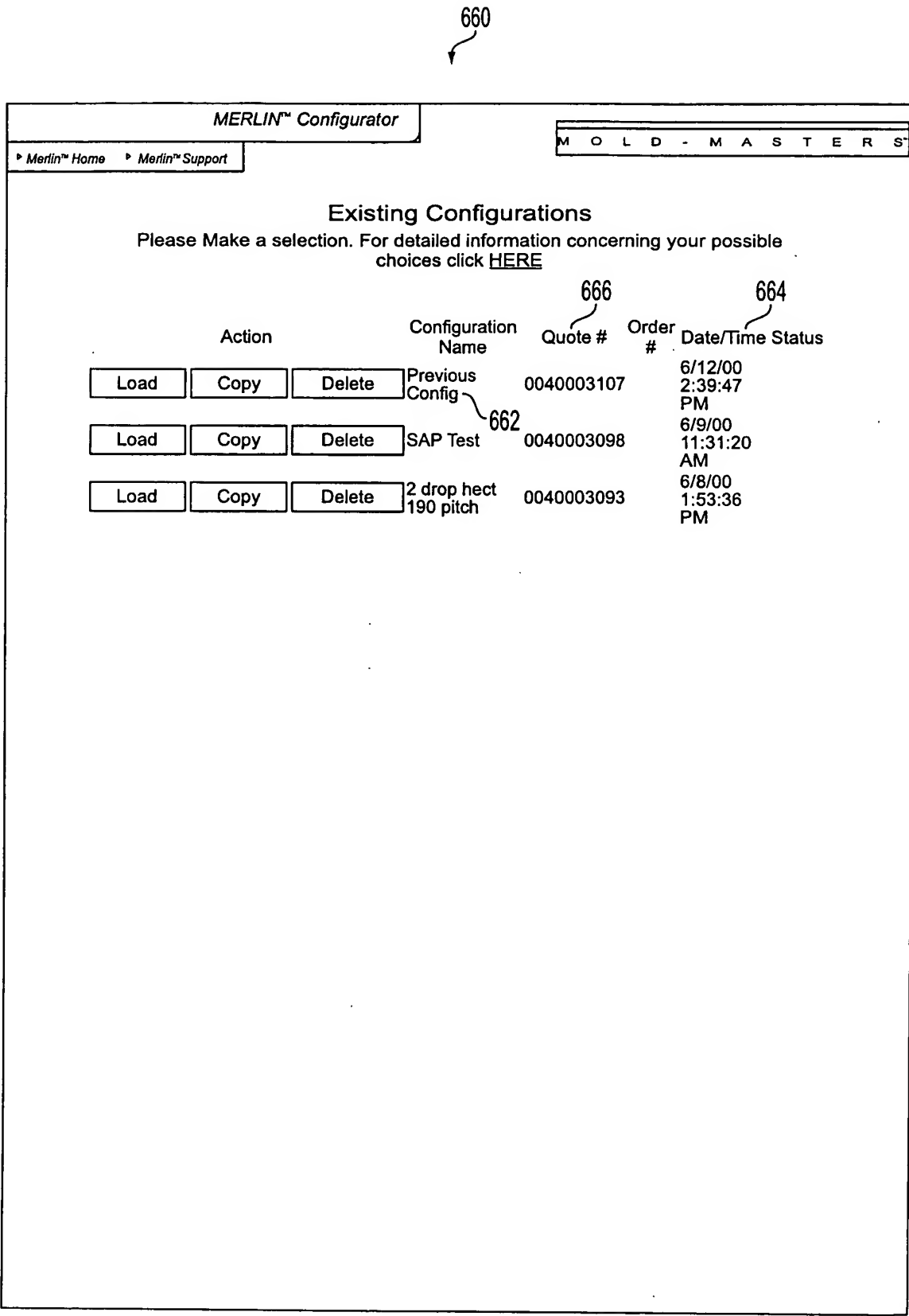


FIG. 34

680

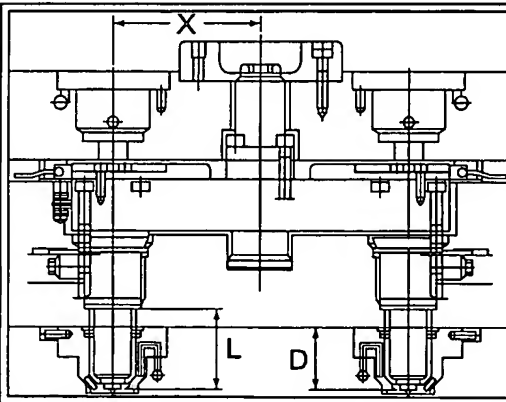
MERLIN™ Configurator		M O L D - M A S T E R S™																						
Merlin™ Home Merlin™ Support																								
Summary Information Form Please fill in the relevant information and check for correctness.																								
<input type="button" value="Previous Step"/>		<input type="button" value="View Printable Version"/>																						
Action To Be Taken. For more information click HERE																								
Step 1 <input type="button" value="Save"/> 682	Step 2 <input type="button" value="Quote"/> 684	Step 3 <input type="button" value="Review"/> 686	Step 4 <input type="button" value="Order"/> 688																					
Lead Time: No Lead Time Available.	Quote #: 0040003107	Not Reviewed.	Order #:																					
<input type="button" value="Generate Drawings"/>	Price: \$6,681.00 USD		PO #																					
			N/A																					
Company Name: 670	Contact Name:																							
Mold Maker:	Molder:	End User:																						
Customer Ref. # :	Requested Delivery Date:																							
Plastic Part # :	Plastic Part Name:	Industry Segment:																						
		Required Parts List																						
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Part Number</th> <th>Description</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>TS0664P2</td> <td>MDH C VALVE TS0664 + TSL229</td> <td>N/A</td> </tr> <tr> <td>NZMH1B1A120P</td> <td>Mim Dura Hecto Valve nozzle L=120</td> <td>N/A</td> </tr> <tr> <td>MNMDH21200BL4VP</td> <td>2-Inline Sub Manifold</td> <td>N/A</td> </tr> <tr> <td>HY6600D</td> <td>Hydraulic/Pneumatic Cylinder Assembly</td> <td>N/A</td> </tr> <tr> <td>BP58.750P</td> <td>Manifold center heater</td> <td>N/A</td> </tr> <tr> <td>LR0081</td> <td>Locating Ring for Valve system with BP58, inch</td> <td>N/A</td> </tr> </tbody> </table>	Part Number	Description	Options	TS0664P2	MDH C VALVE TS0664 + TSL229	N/A	NZMH1B1A120P	Mim Dura Hecto Valve nozzle L=120	N/A	MNMDH21200BL4VP	2-Inline Sub Manifold	N/A	HY6600D	Hydraulic/Pneumatic Cylinder Assembly	N/A	BP58.750P	Manifold center heater	N/A	LR0081	Locating Ring for Valve system with BP58, inch	N/A	
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NZMH1B1A120P	Mim Dura Hecto Valve nozzle L=120	N/A																						
MNMDH21200BL4VP	2-Inline Sub Manifold	N/A																						
HY6600D	Hydraulic/Pneumatic Cylinder Assembly	N/A																						
BP58.750P	Manifold center heater	N/A																						
LR0081	Locating Ring for Valve system with BP58, inch	N/A																						
Additional Information																								
Material	Part	Mold	Other																					
Material type : Acrylonitrile Butadiene Styr.	Shot Weight : 500 - 3500g	# of Cavities :	Gate Cosmetics :																					
Grade:	Est. Injection Time (sec.):	Sub-runners:	Gate Cooling:																					
Supplier:	Wall Thickness:	Gate:	Dim. Stability:																					

FIG. 35

FIG. 36

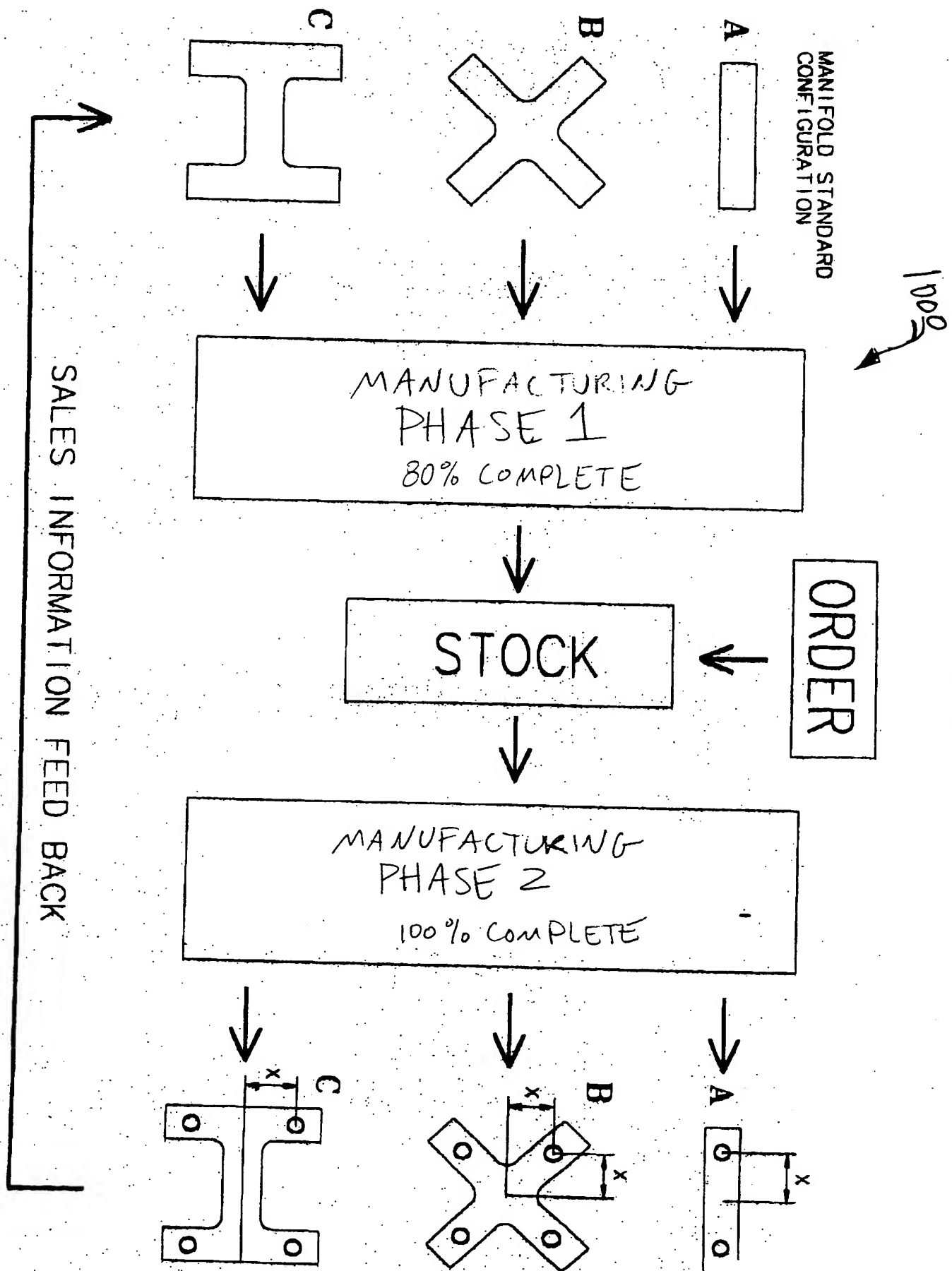


FIG. 37

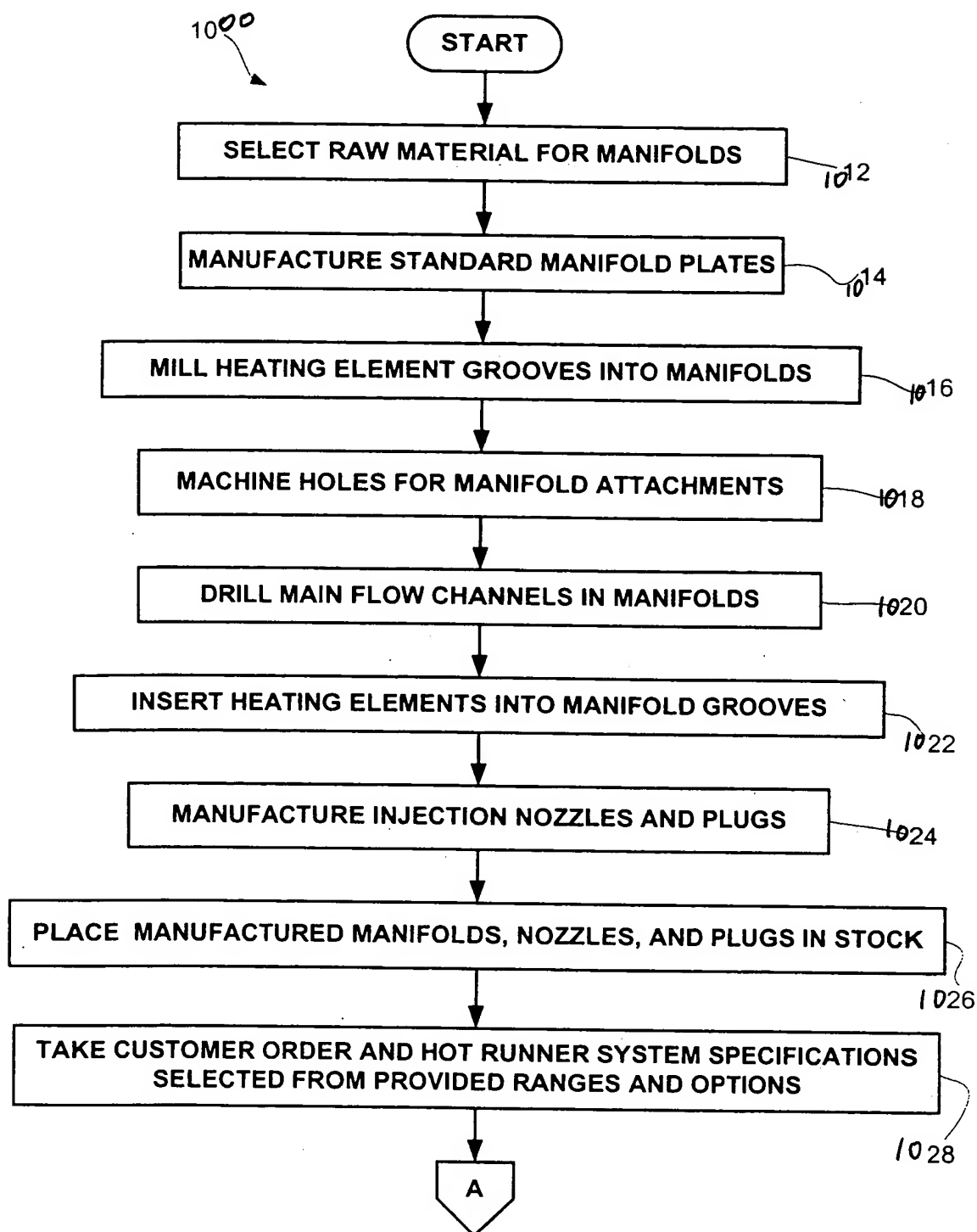
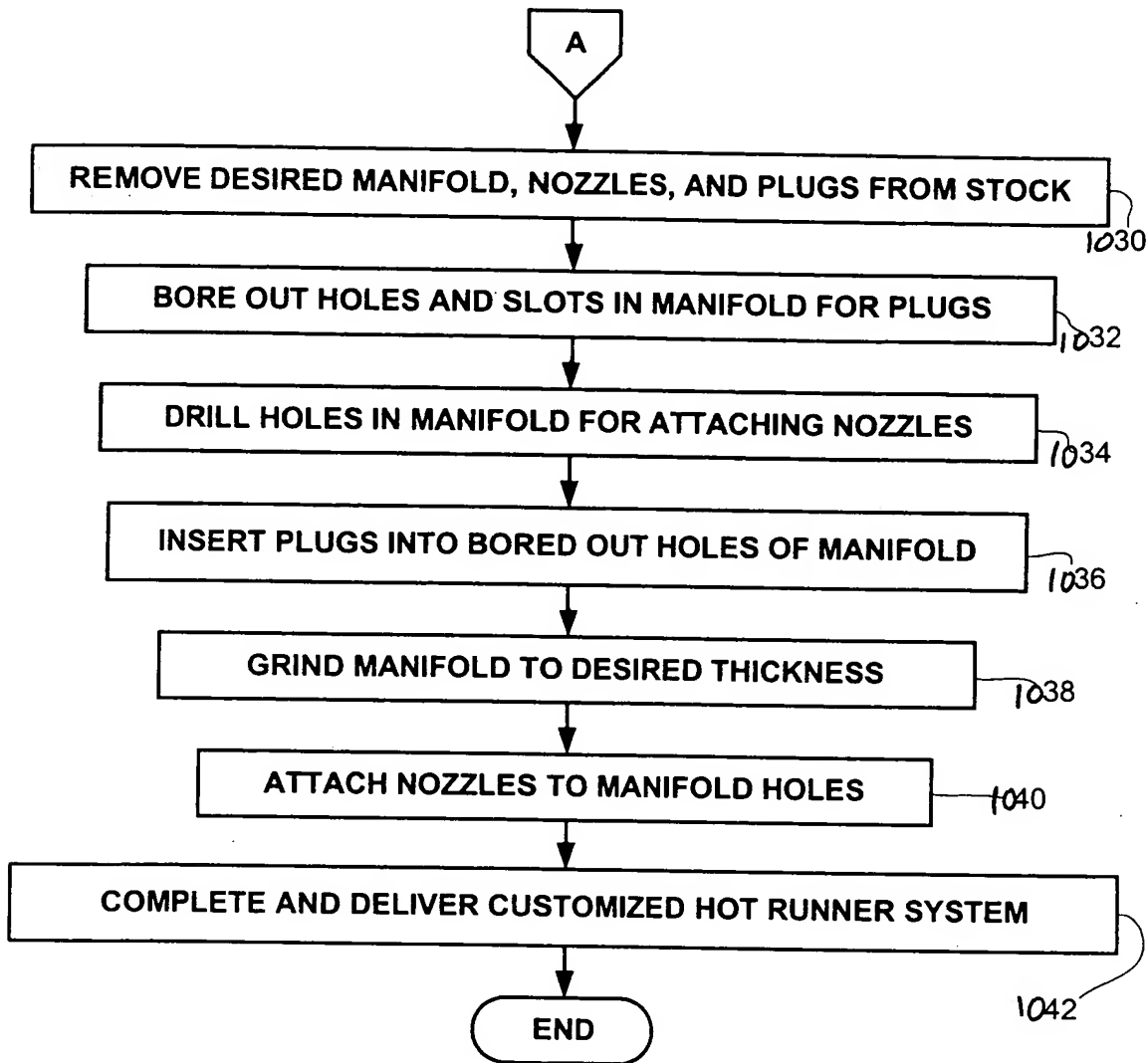


FIG. 37 Cont.



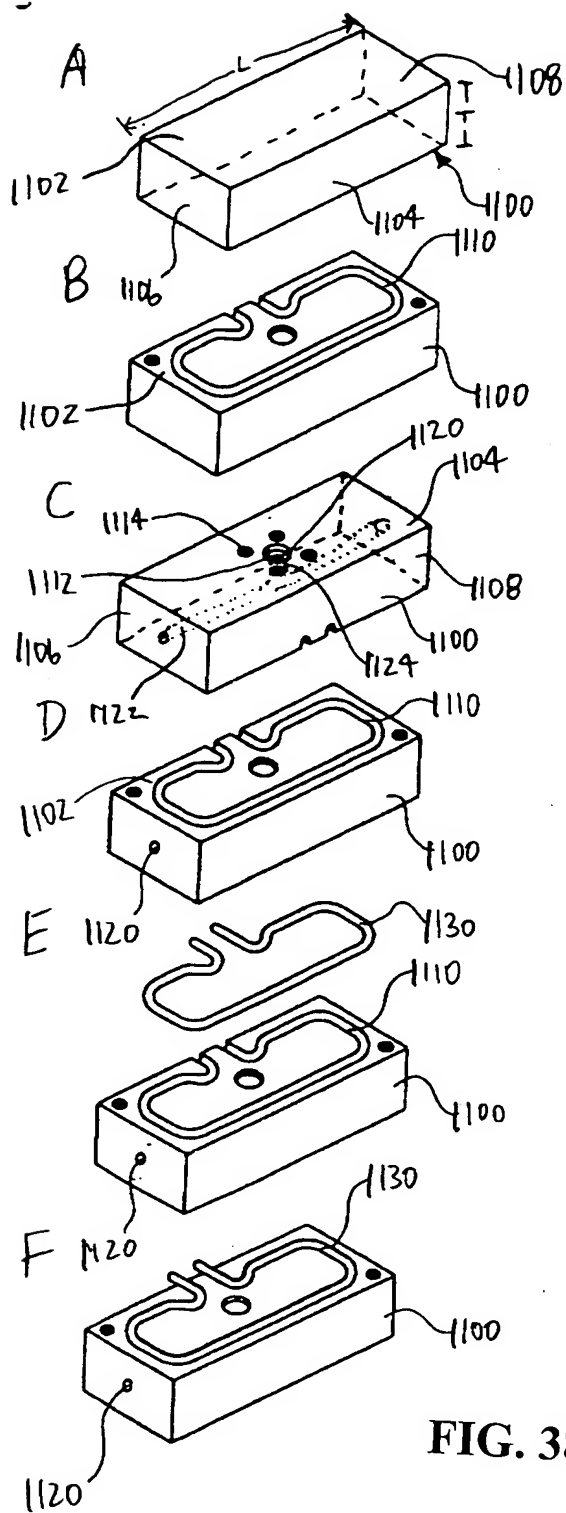
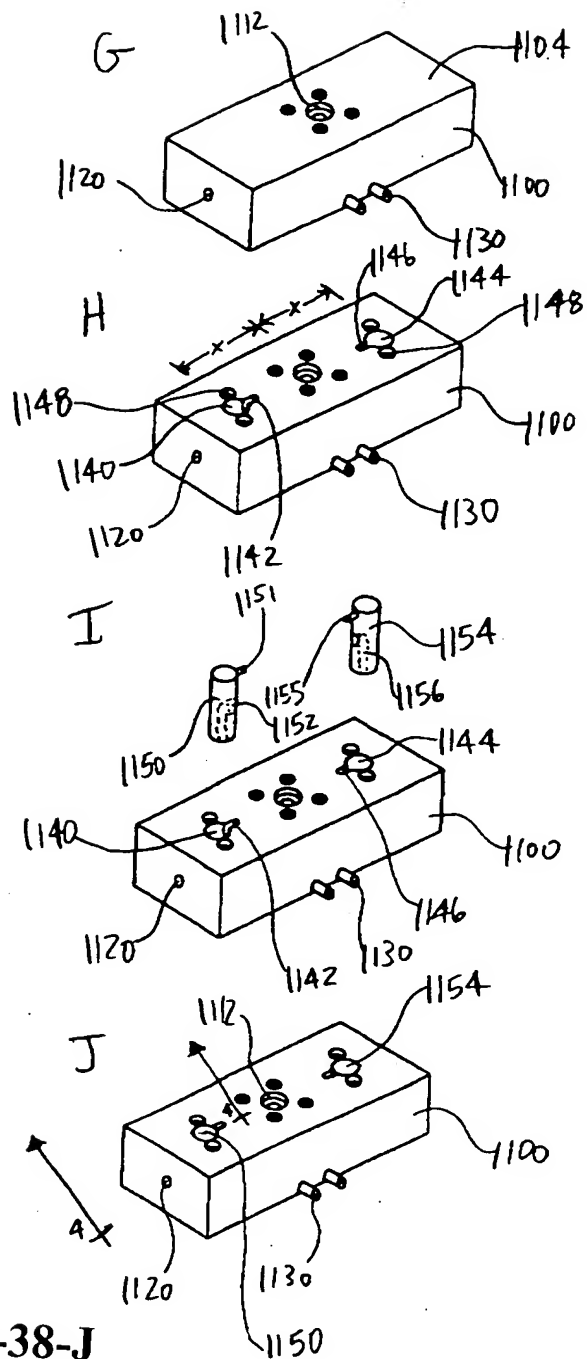


FIG. 38A-38-J



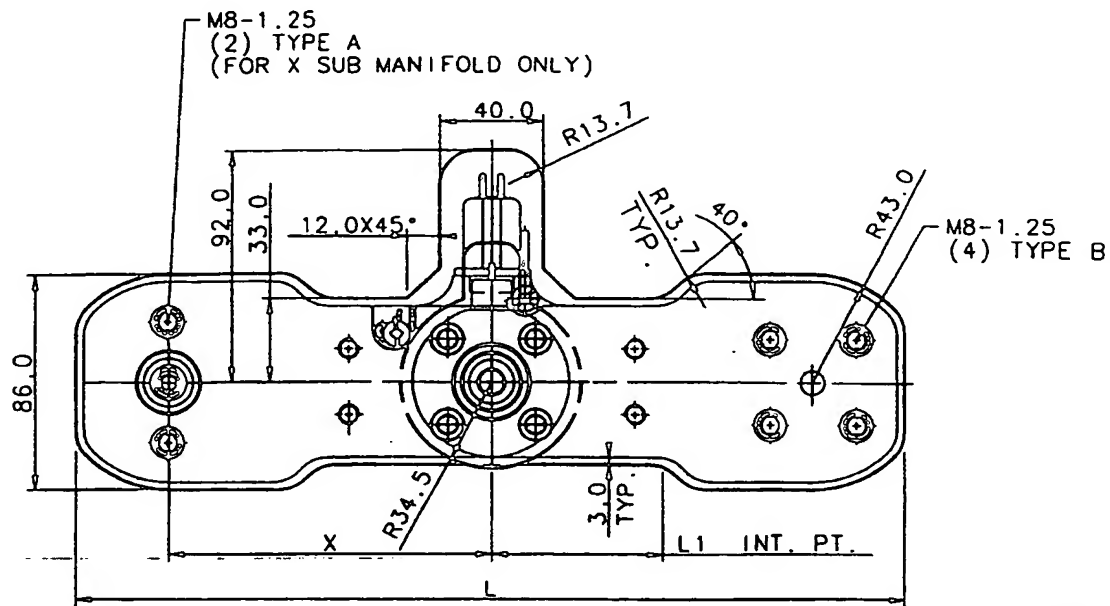
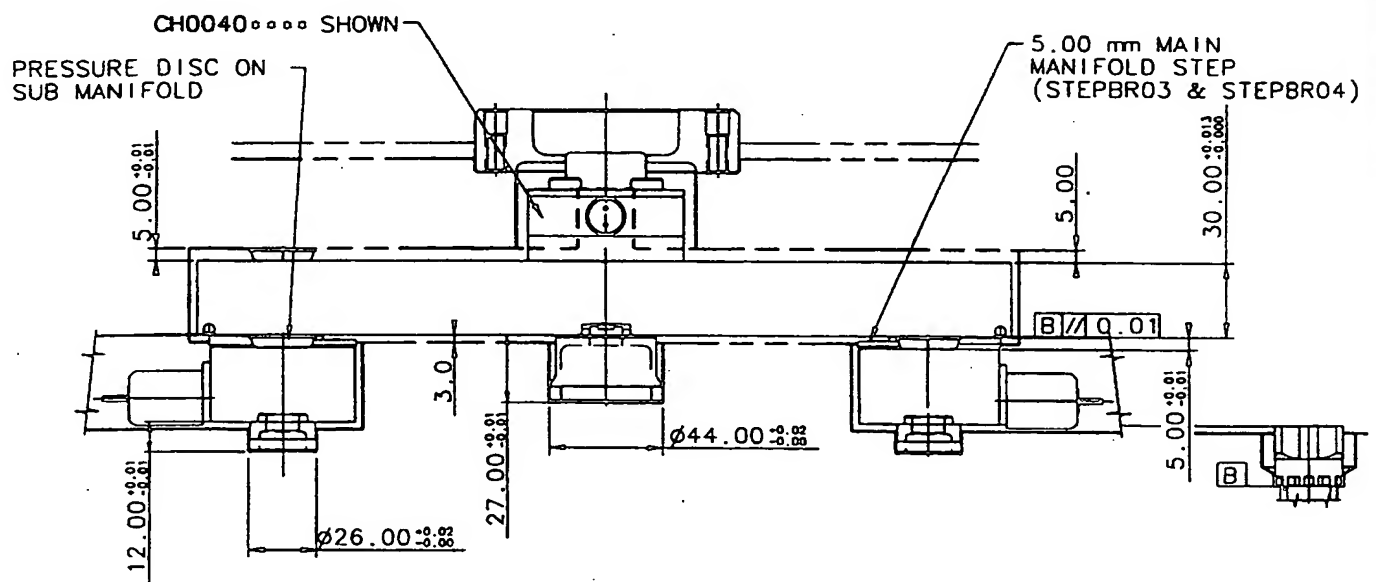


FIG. 38K



MN521125BL1 SHOWN
SCALE -1:3

MM SPEED OPTION	MAIN MANIFOLD OPTIONS				
	MANIFOLD BLANK#	X (PITCH RANGE)	L	L1	POWER (WATTS@220V)
✓	MN521125BL1	100.00-125.00	322.0	65.7	1650
✓	MN521150BL1	125.01-150.00	372.0	90.7	2450
✓	MN521175BL1	150.01-175.00	422.0	115.7	2750
✓	MN521200BL1	175.01-200.00	472.5	140.7	2500
✓	MN521225BL1	200.01-225.00	522.5	165.7	2600
✓	MN521250BL1	225.01-250.00	572.5	190.7	2800

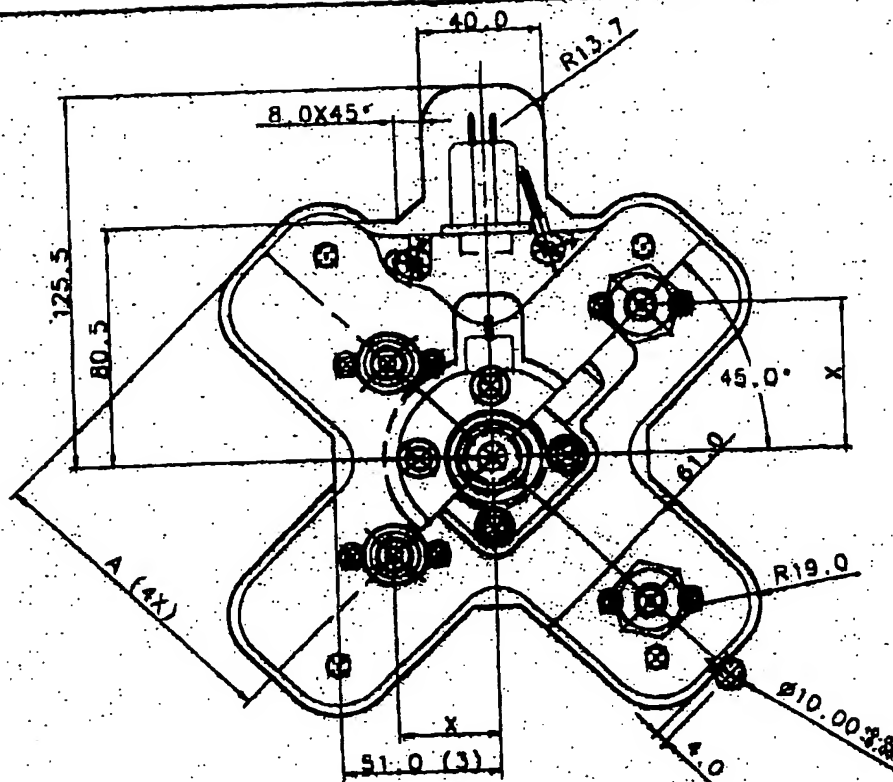
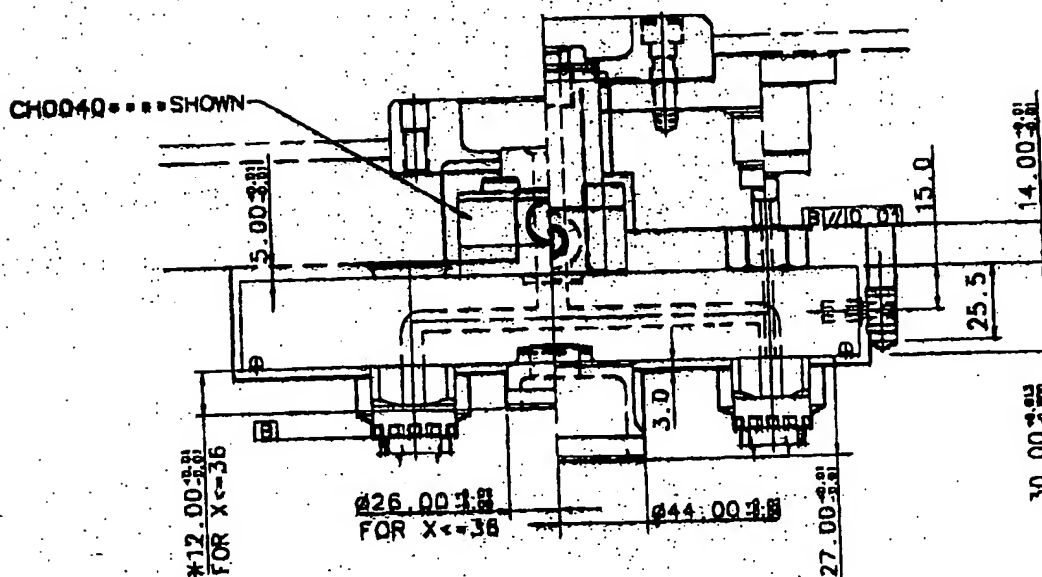


FIG. 38L



MNMDPOX050BL1A SHOWN
SCALE 1:2.5

MIM SPEED OPTION
✓
✓

MANIFOLD OPTIONS				
MANIFOLD BLANK#	X (PITCH RANGE)	GATE TYPE	A	POWER (WATTS 220V)
MNMDPOX050BL1A	32.50-50.00	S	104.0	1550 W
MNMDPOX050BL1A	50.00	V	104.0	1550 W

FIG. 39

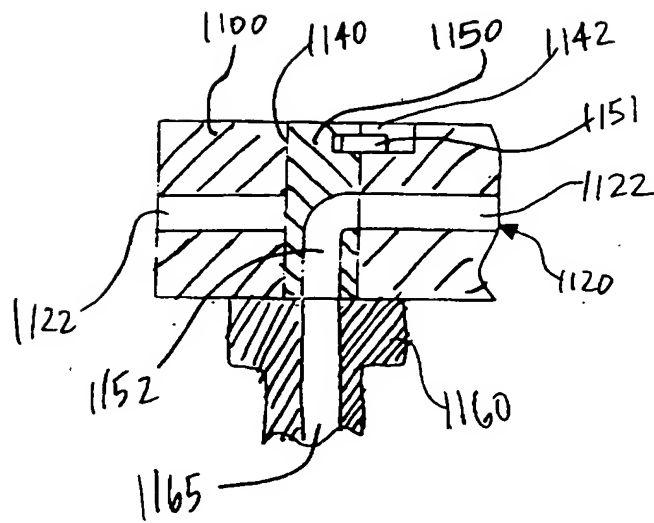


FIG. 40

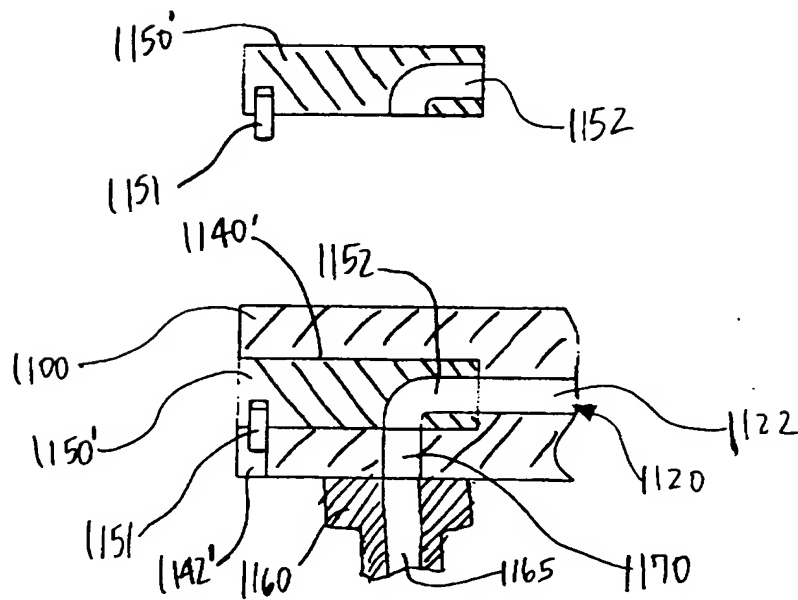


FIG. 41